service manual

MEIKO

Basket transport dishwashing machine K-Tronic

Service manual

Operating instructions

Service instructions

Technical datas

Commissioning

Guide for trouble-shooting

Spare parts list

Service adresses

Miscalleneous

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Operating Instructions

MEIKO - Dishwashing machine
model K-Tronic

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MEIKO Maschinenbau GmbH & Co. KG, Postfach 2040, D-77652 Offenburg, Tel.: +49/781/203-0, Fax: +49/781/203-1174

Contents

	Page
1 Introduction and general information	3
1.1 Storage	4
1.2 Name and address of the manufacturer	4
1.3 Description of the type of equipment	4
2 Explanation of the safety symbols used	5
3 Use for the Purpose Intended	5
4 General safety instructions	6
4.1 Operator's duty of care	6
4.2 Basic safety measures	7
5 Delivery, shipping, installation and assembly	9
5.1 Delivery	9
5.2 Transport and installation	9
5.3 Removing cover panels from under the wash tank	13
5.4 Installation and assembly	14
5.5 Floor load from the dish-washing machine	14
5.6 Instructions for the disposal of the packaging material	14
5.7 Electrical connection	15
5.8 Fresh water connection	16
5.9 Waste water connection	16
5.10 Exhaust air connection of the appliance	17
6 Machine settings for initial commissioning by the service engineer	17
6.1 Commissioning	17
6.2 Chemical product settings	18
6.3 Works to be carried out before initial commissioning	18
7 Preparation – Operation - Washing with dish-washer	18
7.2 Washing interruption	20
8 Shutting the appliance down	20
9 Cleaning	21
9.1 Safety instructions for cleaning	21
9.2 Cleaning after operation	21
9.3 Cleaning instructions – daily	22
9.4 Check list after cleaning	23
10 Tips for self-help in the case of faults	24
11 Staff training	25
12 Disposal of the installation	25
13 Noise level	26
14 Regulations and Standard Values	26
15 Maintenance	27
15.1 Basic safety measures during normal operation	27
16 Maintenance recommendation	28

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1 Introduction and general information

Dear Customer,
We are delighted about the confidence you have shown in our products.
It is very important to us that you should obtain a great deal of pleasure and usefulness from MEIKO products and that they should make your work easier.

If you follow the instructions in this document carefully, your Waste Star will always give you total satisfaction and will have a long service life.

The conveyor system has been assembled by us at the factory and has undergone a thorough inspection. This provides us with the certainty and you with the guarantee that you will receive a fully developed product.

We would therefore ask you to read these operating instructions carefully before using the installation.

These operating instructions inform users of this installation about
- The installation
- The operating methods
- Its use
- The safety instructions and
- Servicing.

This information will help you to get to know the installation fully and to use it properly. It will also enable you to avoid repairs and the concomitant loss of productive work.
In the event of any damage caused by non-observance of these operating instructions, any guarantee claims are invalid. We accept no liability for any additional damage caused as a result.

MEIKO is constantly working on the further development of all its models.

We would therefore ask you to understand that because of this, we must reserve the right to make modifications at any time to any items covered by the contract in terms of their shape, fittings and technical characteristics.

No claims may therefore be based on the details, the images or the descriptions contained in these operating instructions.

Should you require any further information, or in case any particular problems not dealt with in great detail in the operating instructions should arise, you may contact the relevant MEIKO branch to obtain the information you require.

We should also like to inform you that the contents of these instructions do not form part of or amend any earlier or existing agreement, statement, or legal position.

All MEIKO's liabilities arise from the present purchase contract, which contains the entire and solely valid guarantee rules.

These contractual guarantee rules shall be neither extended nor restricted as a result of any explanations given in the instructions.

You receive all this technical documentation free of charge.
Further copies may be made available against the payment of a fee.

The MEIKO Company very much hopes that you will enjoy our product and use it successfully.

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1.1 Storage

Always store the operating instructions close to the installation!
The operating instructions must always be kept within easy reach!
When contacting us, always have the Operating Instructions open in front of you so that our staff can refer to them.

1.2 Name and address of the manufacturer

Please address any queries, technical problems etc. directly to:

MEIKO Maschinenbau GmbH & Co. KG
Postfach 2040
D - 77652 OFFENBURG
Phone + 49 781 / 203-0
Fax + 49 781 / 203-1174

or:

Name and address of the MEIKO branch, manufacturer's agent or dealer.

(Insert company stamp or address)

1.3 Description of the type of equipment

Please provide the following information on any query and/or when ordering spare parts:

Machine model	……
Contract No.:	……
Position:	……
Serial number:	……
Year machine constructed:	……

These information can be found on the plate in the electrical switch cabinet.

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2 Explanation of the safety symbols used

The following safety symbols will appear throughout these operating instructions. The purpose of these symbols is to draw the reader's attention to the text of the adjacent safety information.

ATTENTION!

This symbol warns that there is danger to human life and health.

DANGER!

This symbol warns that there is danger to the installation, to the material or to the environment.

This symbol denotes information that helps you to understand the installation's operation.

Warning of dangerous electrical current!

Warning of possible hand injuries!

3 Use for the Purpose Intended

DANGER!

The dishwashing machine must be used only in accordance with regulations.

This dish-washing machine is intended for washing cutlery, crockery and commonly used kitchen utensils.

Other uses are prohibited.

The items to be washed must be suitable for washing in dish-washing machines.

Other objects must not be passed through the machine.

This appliance is a technically-based piece of equipment and is not a consumer product within the meaning of the Regulations and Specifications (GPSG).

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4 General safety instructions

4.1 Operator's duty of care

The dishwashing machine has been constructed based on a risk analysis and after careful selection of the applicable harmonized standards, as well as additional technical specifications. It therefore corresponds to the latest technology and is guaranteed to provide maximum safety.
This level of safety can only be achieved in practice, however, if all the necessary measures are taken. The operator of the installation has an obligation of care to ensure that these measures are scheduled, and also to check that they are correctly executed.

ATTENTION!

Measures to ensure the safe machine operation

The operator must ensure in particular that ...

ATTENTION!

... the dishwashing machine is only used in accordance with the regulations.
Should it be used in any other way, damage or danger may occur, for which we accept no liability (see the chapter on "Use for the Purpose Intended“).

… in order to preserve the operational and safety guarantees, whenever required, only original parts supplied by the manufacturer are used.
…the user will lose the right to any possible claims if the appliance is modified using any parts other than original parts.

ATTENTION!

… only appropriately qualified and authorized personnel use, maintain, and repair the installation.

ATTENTION!

… the relevant personnel is regularly trained in all questions relating to safety at work and environmental protection and, in particular, that they are familiar with the operating instructions as well as with the safety information provided in them.

ATTENTION!

…the installation is only operated in perfect, operationally efficient condition and, in particular, that the safety systems and switch elements are regularly checked for their operational efficiency.

ATTENTION!

... the required personal protective equipment is made available to maintenance and repair personnel, and is worn by them.

ATTENTION!

..... a functional test on all safety systems of the machine / installation is carried out during every regular maintenance.

ATTENTION!

... the operating instructions are always kept in legible, complete condition at the place where the installation is installed, and are always at hand.

ATTENTION!

... all the safety, warning and operating instructions provided are not removed and are legible.

ATTENTION!

... any necessary initial tests to parts supplied by sub-suppliers, such as heat pumps or other equipment, must be carried out. More detailed information, if required, can be found in the relevant Instructions for Use.

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ATTENTION!

Once the dishwashing machine has been installed, put into service and handed over to the customer/operator, no modifications (electrical or location modifications, for example) may be made. Modifications to the dishwashing machine, and in particular technical modifications carried out without the manufacturer's written authorization, or any modifications carried out by unauthorized persons, will lead to the complete loss of any guarantee claims and will invalidate any liability for the product.

ATTENTION!

... equipment for optimising energy consumption must not be used to reduce essential operating temperatures, as set out in DIN 10510, 10511 and 10512. If you, the client, install equipment for optimising energy consumption, any possible reduction in the quality of the wash and hygiene is your responsibility.

4.2 Basic safety measures

ATTENTION!

Danger can arise from the improper use of the machine or if it is used for purposes for which it was not intended.

Parts carrying electric current as well as moving or rotating parts can cause
- Dangers to the user's life and limb and
- Material damage

ATTENTION!

The machine may only be operated by adequately qualified staff who have been trained by the operating company and who have been trained about the Hazard and Safety Instructions.
Qualified staff, as defined by the Operating Instructions, are persons:
- who are over 14 years of age,
- who, because of their training, experience, instruction and knowledge of the relevant standards, regulations, accident prevention instructions and operating conditions, have been authorised by the person responsible for the safety of the machine to carry out the necessary activities, and who therefore are aware of the possible dangers and how to avoid them,
- who have been trained in first aid and in the on-site rescue arrangements,
- who have read and who observe the safety instructions,
- who have read and who observe the Operating Instructions (or the part applicable to the work to be carried out).

ATTENTION!

The machine operates with hot water. Avoid all contact with the rinse water. Danger of scalding. As a result, the dishes etc being washed are at high temperature. Take suitable precautions.
Observe all the instructions posted on the machine.

WARNING!
When electrical equipment is in operation, it is inevitable that certain parts carry a dangerous current.
ALL current to the whole machine MUST be switched off before the machine's cladding or electrical equipment is opened.
PLACE THE MAIN SWITCH IN THE "OFF" POSITION and install suitable security measures to prevent the switch from being switched on.
Work on and rectification of malfunctions on the electrical portion of the appliance must only be carried out by specialists who have been trained and authorised by MEIKO. The Health and Safety Regulations must be observed.

ATTENTION!

The machine, switch cabinets and other electrical components must NOT be sprayed with a hose or a high pressure cleaner.

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The dish-washer may only be operated under the supervision of trained personnel.

If you are unsure about the operation of the machine, the machine must not be used.

Doors and flaps MUST be closed.

Because of the danger of entrapment by the conveyor and the dishes when the conveyor is in motion, operating staff must not wear tight-fitting clothing; they must also remove rings, bracelets and similar articles.

The tank heating elements may still be hot after the tank has been emptied. There is therefore the danger of burns when the machine is cleaned manually.

Rectification work and work of any kind on the steam installation must only be carried out by specialist staff.

Only detergents and rinse-aids suitable for the use in industrial dishwashers may be used.

Corresponding information is submitted by the manufacturers of such products.

Detergents and rinse agents can be injurious to health.

The manufacturers' Hazard Warnings on the original packaging and in the Safety Data Sheets must be observed.

The main switch must be turned off when operation has finished.

WE ACCEPT <u>NO LIABILITY</u> FOR DAMAGE OR INJURY ARISING FROM FAILURE TO OBSERVE AND ABIDE BY THESE SAFETY INSTRUCTIONS.

4.2.1 Working on electrical equipment

Any repair work and repairs to the power supply on the installation's electrical equipment may only be carried out by a qualified electrician!

Check the electrical equipment regularly! Tighten any loose connections! Replace any damaged leads/cables immediately!

Always keep the switch cabinets closed! Access is only allowed to qualified persons with the appropriate key/tool!

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5 Delivery, shipping, installation and assembly

5.1 Delivery

Check that the delivery is complete immediately after receiving it by comparing it to MEIKO's contract confirmation and/or the delivery note.

If necessary, complain about any missing parts immediately to the shipping company and notify MEIKO.

Check the entire installation for any damage that may have occurred during shipping.

Should you suspect any damage has occurred during shipping, you should inform:

- the shipping company,
- MEIKO

in writing, and also send a photo of the damaged parts to MEIKO.

5.2 Transport and installation

In order to avoid damage to the appliance or life-threatening injuries during shipping of the installation, the following points must be observed:

ATTENTION!

- The shipping operations may only be carried out by qualified persons who observe the safety instructions.

In order to ensure safe shipping, the installation parts are placed on a special four-sided wooden frame.

Incoming goods should only arrive on these wooden frames. The packing is specifically designed to allow the appliances to be moved safely and securely using **two pallet trucks**.

Move only with pallet trucks !!!

It is possible to negotiate gentle curves if the pallet trucks are not positioned completely under the wooden bearers.

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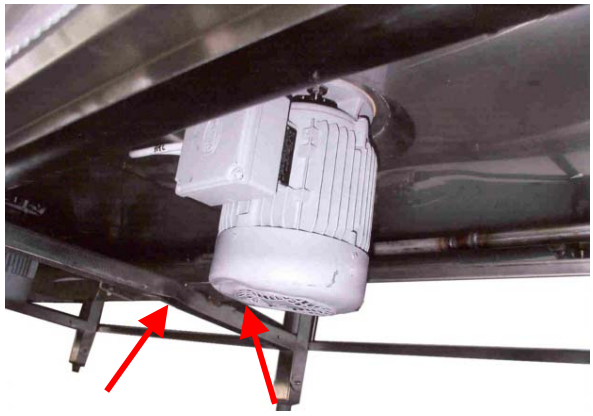
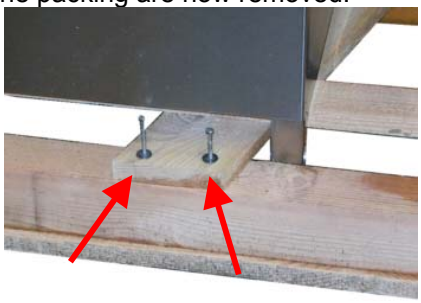
Electric motors may project downwards from the underside of the appliance. Care must always be taken not to damage these.



Severe damage to motor & frame

The forks of the pallet trucks are lowered when the desired position of the appliance is reached (but must remain under the bearers). The machine is standing on the wooden bearers of the packing. There is no load on the foot cleats.

All the screws and bolts of the packing are now removed.

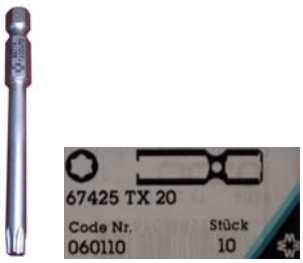


e.g. Remove these and other screws and bolts.

Leave for the moment all the wooden bearers under the machine.

The following screw-drivers and sockets are needed.

Torx TX 20 | Torx TX 25 | 10 mm socket



These screw drivers and sockets are available in all tool shops.

A reversible electric drill with a lockable chuck is also necessary.

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When all the fasteners on the transport packing have been removed, the appliance is again lifted on both sides with the pallet truck.

All the large bearers running along the length of the appliance can now be easily withdrawn.

The appliance is next lowered onto the floor and the pallet trucks removed. **You must take great care to ensure that the appliance is not jolted when it is lowered** otherwise the foot cleats could be damaged beyond repair.
Please also ensure that the cleats are extended uniformly so that one set of cleats is not loaded more than the others. You can check the loading by means of the force needed to turn the cleats with a spanner.

An open-ended 27 mm spanner is needed to adjust the cleats of the appliance.

If it is necessary to move the appliance along a wall, the appliance can be pushed along the wall on its cleats for a limited distance.
(Be careful of gratings in the floor and changes in height.).

The appliance can also be easily moved flush to the wall by leaving the small longitudinal bearers under the appliance and moving the appliance backwards as shown in the picture.

Position the pallet truck close to the frame.

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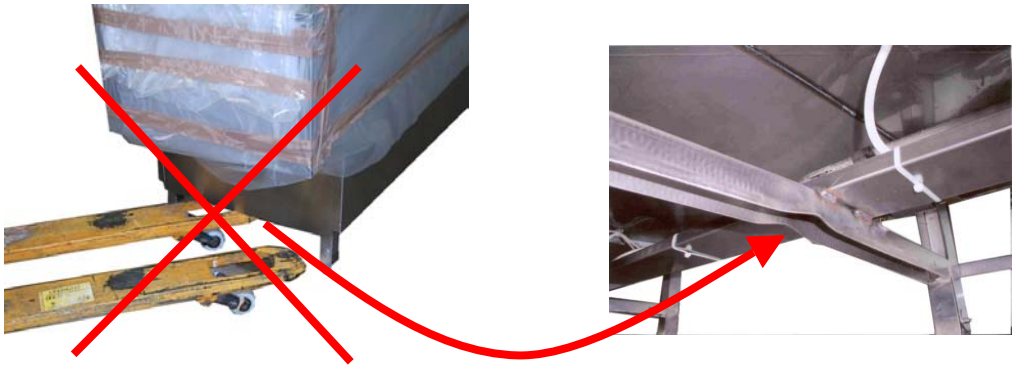
If it is not possible to move the appliance with a pallet truck as described earlier, the longitudinal bearers can be removed by gently tilting the appliance after all the fasteners in the transport packing have been removed.

Important: Never move the appliance like this.



Lifting the appliance by the middle of the appliance frame will inevitably damage the appliance. A wooden batten should always be used to distribute the weight.

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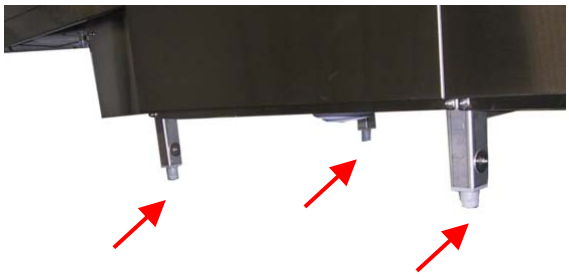
When the appliance is finally positioned, you must ensure that all the cleats carry approximately the same weight.

An uneven distribution of weight can cause individual cleats to break. You can check the loading by means of the force needed to turn the cleats with a spanner.



An open-ended 27 mm spanner is needed to adjust the cleats of the appliance.

IMPORTANT!
Horizontal adjustment of the machine by means of the vertically adjustable feet (spanner/wrench size 27) must be done with care to ensure that the weight of the machine is evenly distributed on the cleats. This is absolutely essential in order to avoid displacement or stresses caused by loading on one side. These stresses can cause, for example, the vertical doors to jam or can prevent them from being water-tight when closed.

- Please also read the chapter on “General safety instructions ".

5.3 Removing cover panels from under the wash tank

The appliance can be fitted with side-hinged doors as an option.

In order to be able to remove the lower cover panels in this model, you must lift the wash tank doors in the closed position after releasing the securing nuts.

The cover panel can be removed if you move the door upwards (ideally ask a second person to lift the door).

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5.4 Installation and assembly

MEIKO has prepared an assembly diagram showing the machine dimensions and the connected loads in detail.

Assembly is completed by reference to the assembly diagram and, in general, by following the instructions of a trained MEIKO engineer.

ATTENTION!

The installation must **o n l y** be connected by suitably qualified personnel.

We accept no liability for connections carried out by unqualified personnel.

After unpacking, position the appliance as indicated in the assembly diagram and as the dimensions allow.

The appliance must be level and straight when erected.

If the machine is delivered divided in a number of parts, the joints must be thoroughly treated with P819 activator (MEIKO ordering no. 9 503 233) and sealed on the inside with silicone (Sista F 108 – MEIKO ordering no. 0 870 001 or M509, MEIKO ID no. 9 518 385; in paint shops Sikaflex 260 – MEIKO ordering no. 0 870 030). .

Sista P 819 activator activator order no. 9 503 233	Sista F 108 Special Silicon adhesive order no. 0 870 001	Sista M 509 Special Silicon adhesive order no. 9 518 385	Sikaflex - 260 strong adhesive order no. 0 870 030

A sealing strip must be applied to the exterior.

It should be recessed by about 1 mm and is intended to improve the optical appearance.

5.5 Floor load from the dish-washing machine

The floor load per foot (with a loaded surface of D=30 mm per foot) is:

- for dish-washers without a heat pump: approximately 150 kg
- for dish-washers with a heat pump: approximately 200 kg

5.6 Instructions for the disposal of the packaging material

- The four-sided wooden frame consists of untreated, raw pine / spruce.
- The plastic sheeting (PE sheeting) may be recycled.
- The cardboard packaging material used to protect the edges can also be recycled.
- The steel tensioning strap made of strip steel may be recycled with the steel scrap.
- The plastic tensioning strap of plastic (PP) can be recycled.

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ATTENTION!

5.7 Electrical connection

Work on the electrical part of the machine may only be undertaken by specialist personnel.

The wiring diagram is located in the switch cabinet. This wiring diagram is part of the machine and therefore must not be removed.

The manufacturer's plate with the connected electrical loads is located inside the switch cabinet.

General Electrical Regulations must be observed when connecting the machine to the power supply.

Attention:
The fuses on site must be selected to suit the local conditions and the appliance's nominal current in such a way that back-up protection is guaranteed (Germany: VDE 0100).
The mains supply cables must be provided with fuses in accordance with regulations and must have a main switch (accessible on site or inside the appliance for operating personnel). If the neutral conductor (N) is not grounded, a 4 phase main switch must be used. Cables connecting to the main power supply must be oil-resistant and sheathed and must not be lighter than an H 07 RN-F cable.
The potential equalisation connection must be carried out in accordance with the requirements of the local electricity supply company and all applicable local regulations (in Germany VDE 0100 Part 540 must be observed).
Where VDE 0160 / EN 50178 applies, there is a requirement that in areas of electrical equipment where line-side residual current protective circuit breakers (FI) are planned or installed, an FI type B device sensitive to all types of currents must be installed before the FI type A.
For the supply connection use a 5-pole terminal strip (L1, L2, L3, N, PE).

The electrical connection data, voltage, type of current, output can be seen on the manufacturers' plates on the machine.

Please check the voltage.

All electrical connections must be made inside the electrical switch cabinet by means of marked screwed cable glands as in the circuit diagram and connected to the terminals and the fuses provided.

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5.8 Fresh water connection

The water-carrying pipes and components are not frost-proof.

If the temperature of the place where the appliance has been installed can fall below 5°C, suitable precautions for protection against frost must be taken.

Information on nominal widths, cross sections etc. relate to the appliance.
Installations on site must be dimensioned to match local conditions (e. g. cable arrangements, access lengths).
The terminal positions of media and energy connections to the machine depend on the method of construction (normally at a distance from the connection points on site). The connections must be made by approved technicians.
All parameters for the media and energy supplies must be maintained at a constant level during all the operations.

Fresh water connections must be carried out in accordance with the requirements of the local regulations (e.g. Germany DIN 1988). A stop tap must be installed in all ingoing water supply pipes and must be accessible to operating personnel. A tap capable of isolating the appliance from the mains (in Germany in accordance with EN1717) installed.
Fresh water connections must be carried out in accordance with the requirements of the local regulations (e.g. Germany DIN 1988).

It is possible to clean the dirt screens without turning off the main water supply.
The water supply is automatically cut off when the lower component in which the screen is located is unscrewed.
This enables the screen can be easily cleaned during maintenance.

(This cut-off function can also be used as a stop-cock when servicing the machine.)

Information on the water quantities, quality and temperatures needed can be found in the installation plan.

The water quality must also comply with the requirements of the Commercial Dish-Washing Association. (http:// www.vgg-online.de).

Most appliances are equipped with heat regeneration or with a heat pump.
In order for this equipment to operate at optimum efficiency the inlet temperature of the rinse water supply must be maintained at a low a level as possible (ideally about 10°C).
Water supply at a higher temperature not only detracts from the efficiency of the heat regeneration and the heat pump, but also impairs conditions relating to the appliance's exhaust air.

If valves on the appliance are also controlled by fresh water, a minimum **flow** pressure is necessary. See "Regulations and Standard Values" for the necessary pressures and quantities.

5.9 Waste water connection

The waste water connection must be carried out in accordance with the requirements of DIN 1986 and all applicable local regulations.

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All discharge pipes for water from the machine must be connected to the kitchen waste water system via an adequately dimensioned odour trap.
When selecting materials for pipes, sealants etc, you must bear in mind that the temperature of the water discharged from the machine can be 70 - 75° C. Furthermore, the pH values can lie between 3 and 12 depending on the nature and concentration of the detergent; in other words, the materials must be resistant to both acids and alkalis. Connect waste pipes on site in accordance with the instructions on the installation plan.

5.10 Exhaust air connection of the appliance

Air control equipment must be designed to comply with local regulations (for example, in Germany VDI 2052) and must in all cases be water-tight and corrosion resistant.

The values indicated for exhaust air temperature and humidity can increase under certain operating conditions (e.g. standby).

The discharge air connection must be connected into the building's exhaust air system as in the installation plan.

Important !!!
The exhaust air connection must be made in such a way that the parts containing water are not damaged in frosty weather.
If this is not possible, frost protection must be installed.

The hot, moist air from the machine must be removed from the washing-up kitchen. In order to achieve efficient extraction, you must ensure that the overpressure on the machine ducts or the negative pressure of the building is adequate.

6 Machine settings for initial commissioning by the service engineer

6.1 Commissioning

In order to avoid damage to the installation and the injury and death of persons when commissioning the installation, the following points must be observed without fail:

Any necessary initial tests to parts supplied by sub-suppliers, such as heat pumps or other equipment, must be carried out. More detailed information, if required, can be found in the relevant Instructions for Use.

- The installation may only be commissioned by suitably qualified persons observing the safety instructions.
- Before initial startup, check that any tools and parts not belonging to the installation have been removed.
- Check whether any escaping liquid is removed.
- Activate all the safety systems and door switches before commissioning.
- Check that all screw connections are tight.
- Please also read the chapter on "General safety instructions ".

Commissioning and instructions will be provided by technicians specially trained by Meiko The operator may only use the installation after training has been provided.

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6.2 Chemical product settings

The correct settings for the quantity of detergent and rinse agent depend on the product used.

The relevant chemical supplier can install the correct setting.

6.3 Works to be carried out before initial commissioning

All the points in this section must be observed before initial commissioning.

– water-carrying pipes
  All pipes must be thoroughly flushed out. The heating system must not be switched on when this is done (remove the fuses) in order to prevent the heating elements from operating when the system is dry. All dirt collectors must be cleaned afterwards.

– Steam pipes

All pipes must be thoroughly flushed out. When doing so, all control valves must be fully open and all condensate traps removed. All dirt collectors must be cleaned afterwards.

– Connection to the electricity supply.
  - Tighten all electrical terminals in the switch cabinet; check that electrical plugs/jacks are firmly in position.
  - All motors must be check for the correct direction of rotation.
  - Carry out a visual check on all electrical equipment (e.g. switches, cables, housings, covers).
  - Carry out functional tests on all electrical switches.

– Internal regions of the machine

Ensure that there are no foreign bodies inside the machine (e.g. cleaning rags, loose bolts/washers/nuts, tools, packaging materials etc.).

Important !!!
Ensure that friction cannot occur where moving parts pass close to fixed parts. (e.g. rails, water deflectors and others).

Ensure that all wash pipes, wash systems, rinse arms, screens and filters, tank covers, waste pipes, waste screens and swing valves on the entry and discharge section are installed. Ensure that all the parts are correctly installed.

7 Preparation – Operation - Washing with dish-washer

Once all installation work (electrical, water, waste water, hot steam, exhaust air) is complete and all settings (wash tank, clear rinse water and drying temperatures, clean rinse water quantity, monitoring times for the tank fillings, conveyor overload switch activation) have been entered **by trained specialists** (see chapter 3) the machine can be commissioned.

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ATTENTION!

7.1.1 Basic safety measures during normal operation

The installation may only be operated by trained and authorized persons who are familiar with the operating instructions and who are capable of working in accordance with them!

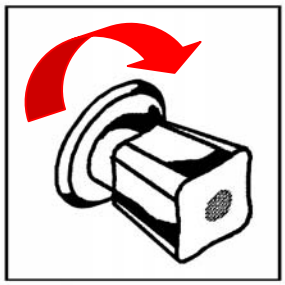
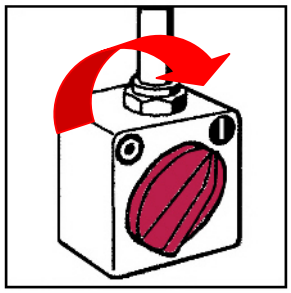
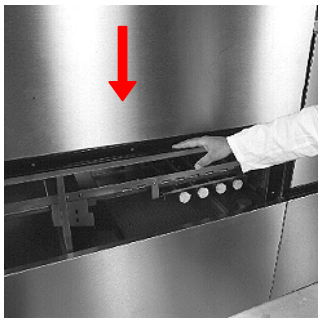
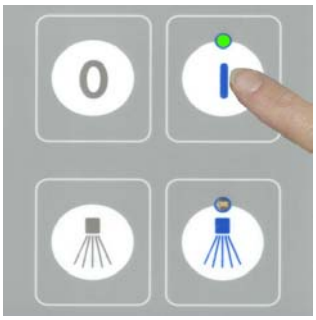
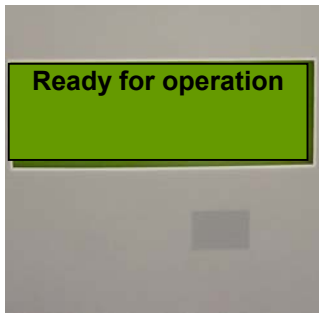
Before switching the installation on, check and ensure that

- Only authorized persons are present in the installation's operating area
- Nobody will be injured when the installation starts

Before commissioning, each time

- Inspect the installation for any visible damage and ensure that it will only be operated in a perfect condition!
  Report any defects to the foreman immediately!
- Remove any materials or objects not required for the operation of the installation from the installation's operating area!
- Check and ensure that all the safety equipment is operating perfectly!

7.1.2 Operation

<table>
<tr><td>  </td><td>  </td><td rowspan="2">Ensure that all wash pipes, wash systems, rinse arms, screens and filters, tank covers, waste pipes, waste screens and swing valves on the inlet and waste pipes are installed.
Ensure that all the parts are correctly installed!</td></tr>
<tr><td>Open the stop valve in the water pipe.</td><td>Switch on the power supply from the building.</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Close the doors.</td><td>The wash tanks can be automatically filled and heated by means of the ”Fill/Heat“ button.</td><td>Once the wash tanks are filled and have been heated to the washing temperature, the display will show: “Ready for operation”</td></tr>
<tr><td> </td><td colspan="2" rowspan="2">Once the wash tanks are filled and have been heated to washing temperature, the machine is started with the ”Start“ button. The conveyor and the wash pumps now operate so that the washing process can begin. The machine is normally equipped with rinse water conservation; in other words the rinse process is not in operation continuously.

All other functions, e.g. temperature monitoring or wash tank water level checks are performed by the machine control; thus no other manual operations or checks are needed.</td></tr>
<tr><td>Press the start button to start the dishwasher</td></tr>
</table>

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7.2 Washing interruption

To interrupt temporarily the washing cycle press the “Pause“ button.

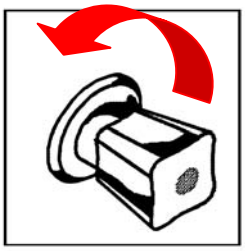
Wash pumps and conveyor are switched off. However, the tank heating elements are not switched off with the result that the machine remains ready for operation.

Press the start button to restart the dishwasher.

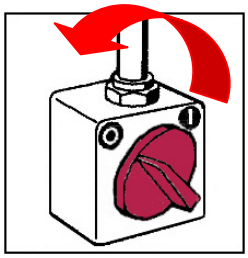
8 Shutting the appliance down

This appliance must be shut down at the end of operations or if the premises in which it is located are not regularly under surveillance by staff!

Press the „Total off“ button to switch off the dishwasher.



Close the stop valve in the water pipe.



Switch the power supply from the building off.

The dish-washer is now voltage free.

Clean the appliance; see the chapter headed “Cleaning”.

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In the case of appliances with:

- automatic regeneration of water softeners
- frost protection
- integrated reverse osmosis equipment
- automatic tank filling and heating of the wash-tank by means of a time switch

automatic operation may only be activated if the premises in which the appliance is located is under regular surveillance by staff.

9 Cleaning

9.1 Safety instructions for cleaning

ATTENTION!

The tank heating elements may still be hot after the tank has been emptied. There is therefore the danger of burns when the machine is cleaned manually.

ATTENTION!

Electrical components, switch cupboards and other electrical components may not be sprayed with a water hose or high-pressure cleaner.

9.2 Cleaning after operation

It is recommended that you maintain the machine in good condition not only for reasons of hygiene but also to keep your dish-washing machine in full working order and to be able to recognise damage more easily. Observe the following points after operation.

Clean and check that the machine is in working order:

- Tank cover screen
- Side screen supports
- Pump screen (suction side)
- Spray protection curtains
- Wash pipe jets
- Wash tanks
- Float switch
- Rinse arm jets

Any cladding panels removed to undertake this work must be replaced in their original position after completion of the work. Ensure that all the parts are correctly installed.

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9.3 Cleaning instructions – daily

Do not use a high pressure cleaner!!!

Switch off the machine.

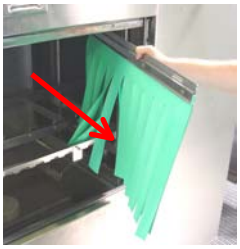
Open the doors.

Spray the machine's internal chamber. and the rear side of the vertical door with a hose

Remove the tank cover screens.

Remove the screen supports.

Remove the wash systems.


Remove and clean the spray protection curtains.

Remove the pump rinse arms..

Open the outlet.

Remove the pump suction sieve.

Clean the pump suction sieve.

Open the little drain.

Remove the pump suction sieve.

Clean the pump sieve.

Spray the machine's internal chamber.

Remove the outlet screen.

Clean the outlet screen.

Spray the float valve housing of the water level monitoring.

Clean the wash and rinse arms and their jets. Use a nylon brush to clean the jets. Check that the wash arms and end caps are complete and water-tight

Clean all the tank cover screens

Close the doors

When you have cleaned the machine, replace all the parts; check that you have replaced them all and that they are in the correct position. Check that all wash arms are properly secured. Check that all wash arm end caps are water-tight. Replace the outlet stand-pipes and curtains.

The machine, switch cabinets and other electrical components must NOT be sprayed with a hose or a high pressure cleaner.

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9.4 Check list after cleaning

After cleaning the machine ensure that
all parts have been replaced correctly.
Check that the following **parts are present and in the correct position:**

- Side screen supports
- Tank cover screens
- Outlet stand-pipe
- Pump rinse pipes
- Curtains
- Check that the correct number of wash pipe end caps is present
- Pump suction side sieves

Close the outlet valve.

The dish-washer is now ready for the next shift.

Important !!!

Do not use a foaming detergent for dish-washing by hand for pre-cleaning close to the dish-washer. Foam can cause malfunctions in the dish-washer and a poor wash.

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10 Tips for self-help in the case of faults

Fault:	Remedy
Machine does not fill.	• No water available • Dirt trap blocked • Level electrode / float valve soiled • Solenoid valve defective

Fault:	Remedy
Rinse water does not spray.	• No water available • Dirt trap blocked • Solenoid valve defective • If the appliance has automatic water conservation, the conservation grid switch / timing switch is defective • Fresh water rinse system furred • Built-in reverse osmosis installation broke down

Fault:	Remedy
Vapours drains	• Extraction broke down • Curtains missing • Temperatures too high • Wash arms, drying nozzles, air guide plates bent or not correctly inserted

Fault:	Remedy
Stripes and smears on the dishes	• Rinse water mineral content too high (see operating instructions) • If this is observed only at particular times, check water softener for regeneration. This must not carried out during the dishwashing operation. • Water pre-treatment defective or not carried out • Different water type depending on the waterworks • Unsuitable rinse aid products or wrong dosage quantity • Incorrectly fitted or missing curtains • Oversize containers previously washed causing detergent to be transferred into following tanks • Too fast conveyor speed

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Fault:	Remedy
Formation of a significant amount of foam in the wash tank	• Detergent for dish-washing by hand enters the wash tank because of pre-cleaning the dishes • Daily cleaning of the machine is carried out with foaming cleansing agents which afterwards enter the machine • Improve pre-wash, as too much food residue is entering the tanks Alternatively, empty wash tanks between uses. • Rinse water quantity too low • Detergent or rinse aid product not suitable • Temperatures too low < 40°C

11 Staff training

Only trained and instructed personnel are allowed to work on the dishwashing machine. The skills required by the personnel for the installation's operation, maintain and repair must be clearly established.
Any personnel undergoing training are only allowed to work on the dishwashing machine installation under the supervision of an experienced person.

persons / Activity	Trained operating personnel	Trained company tradesman	Trained company tradesman or installation engineer
Installation and assembly			◆
Commissioning			◆
Operation, use	◆	◆	◆
Cleaning	◆	◆	◆
Checking safety devices	◆	◆	◆
Fault finding		◆	◆
Troubleshooting, mechanical		◆	◆
Troubleshooting, electrical			◆
Maintenance			◆
Repairs		◆	◆

Such training should be confirmed in writing.

12 Disposal of the installation

When you eventually dispose of the installation (dismantlement/scrapping), the parts and their corresponding materials should preferably be re-used.
Here is a list of the materials that most frequently occur when dismantling:

- Chrome-nickel-steel
- Aluminium
- Copper
- Brass
- Electrical and electronic parts
- PP and other synthetic materials
- Chrome-nickel steel

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13 Noise level

Noise level in the workplace LpA ≤ 73 dB.

14 Regulations and Standard Values

Standards referred to, important standards, regulations and Institutions:

DIN 10510	Commercial Dish-Washing With Multi-Tank Conveyor Dish-Washing Machines
DIN 10512	Commercial Dish-Washing With Single Tank Dish-Washing Machines
DIN 1988	Technical Rules For Drinking Water Installations
DIN 1717	Protection Of Drinking Water Against Contamination – Safety Equipment
DIN 2052	Technical Equipment For Kitchen Atmospheres
DVGW	German Gas and Water Industry Association http://www.dvgw.de
VGG	The Industrial Dish-Washing Association (http:// www.vgg-online.de).

Water quality limits as determined by the Industrial Dish-washing Association

Total hardness	up to 3 °dH
Chloride content	Max. 50 mg/l water (to avoid pitting corrosion in low alloy cutlery steels)
Heavy metals	0.1 mg iron and 0.05 mg manganese per litre of water should be regarded as the maximum. As little as 0.05 mg copper per litre of water can lead to discolouration of the dishes and the dish-washer.
Total salt content	Max. 400 µS/cm (related to porcelain and opal glass) Max. 100 µS/cm (related to glass) Max. 80 µS/cm (related to stainless steel) (measured by conductivity).

Machine temperatures set out in DIN 10510 and DIN 10512

	Without disinfectants	With disinfectants
Clean water pre-washing	25°C - 40°C	
Pumped water pre-washing	40°C - 50°C	
Detergent circulation tank	60°C - 65°C	55°C - 65°C
Pumped water rinsing	60°C - 70°C	
Clean water rinsing	80°C - 85°C	

Control media for valves:

Pressures	Min. 3.5 bar, max. 8 bar (no pressure surges)
Usage of one control valve per switching operation	Approx. 0.01 litre at 3 bar

Noise level:

Noise level in the workplace	LpA ≤ 73dB

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15 Maintenance

Maintenance work may only be carried out when the dishwashing machine is shut down. In addition, the dishwashing machine main power switch must be in the OFF position and locked in this position.

Existing safety systems may not be removed!

ATTENTION!

A functional test on all safety systems of the machine / installation is carried out during every regular maintenance.

We recommend that you take out a maintenance contract with our manufacturer's agent in order to ensure a long service life.

15.1 Basic safety measures during normal operation

Observe the maintenance periods prescribed in the operating instructions!
Observe the maintenance instructions given in these operating instructions for individual components!

ATTENTION!

Before carrying out any maintenance or repair work, prohibit access to the operating area to any unauthorized persons! Provide or display a sign drawing attention to the maintenance or repair work!

Before carrying out any maintenance and repair work, switch off the electrical power at the main electrical power switch and secure the switch with a padlock! The key for this lock must be kept in the hands of the person carrying out the maintenance and repair work! Failure to observe these precautions can result in severe physical injury or damage to property.

ATTENTION!

Before carrying out any maintenance and repair work, ensure that all the parts of the machine that may be touched have cooled down to room temperature!
Carefully dispose of any lubricating, cooling or cleaning products that could harm the environment!

15.1.1 Before starting operations following maintenance or repair work

ATTENTION!

Before starting operations following maintenance or repair work, all initial tests must be carried out as described in "Machine Settings for Initial Commissioning by the Service Engineer".

15.1.2 Observe the environmental protection regulations

ATTENTION!

Legal obligations relating to the avoidance of waste materials and to their recycling/removal in accordance with applicable regulations must be observed!
In particular, during installation, repair and maintenance work, materials that could pollute water such as:

- Grease and oils
- Hydraulic oils
- Coolants
- Cleaning fluids containing solvents

must not pollute the ground or run into the sewerage system! These materials must be stored, shipped, collected and disposed of in suitable containers!

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16 Maintenance recommendation

	Service step ①	②	③	④
Maintenance	Cleaning works **Daily**	At least once **quarterly**	At least once **or twice a year** but **every 1000 h**	At least once **yearly** but **every 2000 h**
VERY IMPORTANT:	**Whenever any electrical components are disconnected and reconnected, replaced or repaired, a safety test must be conducted, at least on these components!!!**			

Tip:

Exchange the wearing parts designated „V“ from the spare parts list.

1. Basket conveyor				
Check drive motor				
Check drive motor for exterior damage			◆	◆
Check drive motor for quiet running			◆	◆
Check current consumption (I_N see wiring diagram)			◆	◆
Check ventilation grid for cleanliness			◆	◆
Conveyor overload switch activation				
Check the transport cradle guide blocks and the link block of the drive plate for wear.			◆	◆
Check the conveyor overload switch by simulating an overload. Correct the pre-tension on the spring if required.		◆	◆	◆
Check that the conveyor cradle moves easily				◆

2. Wash pumps				
Check pump motor				
Check motor for exterior damage			◆	◆
Check current consumption (I_N see wiring diagram)			◆	◆
Check motor for quiet running (bearing damage)			◆	◆
Check ventilation grid for cleanliness			◆	◆
Check wash pump				
Check sliding ring seal for watertightness (external visual check)		◆	◆	◆
Replace sliding ring seal				ca. alle 2 Jahre alle ca. 3000 h
Check pump impeller for damage				◆
Check pump housing for damage		◆	◆	◆
Check pump screen (suction side) (if present)				
Check pump screen condition		◆	◆	◆
Thoroughly clean inside of pump screen				◆
Clean outside of pump screen	◆	◆	◆	◆

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	Service step ①	②	③	④
Maintenance	Cleaning works **Daily**	At least once **quarterly**	At least once **or twice a year** but **every 1000 h**	At least once **yearly** but **every 2000 h**

VERY IMPORTANT: **Whenever any electrical components are disconnected and reconnected, replaced or repaired, a safety test must be conducted, at least on these components!!!**

3. Wash systems

Check ascending pipe for watertightness				
- Pump / ascending pipe connection		◆	◆	◆
- Ascending pipe		◆	◆	◆
- Ascending pipe / wash system connection		◆	◆	◆
- Wash system seating		◆	◆	◆
Check wash system				
Check wash system for damage		◆	◆	◆
Check nozzles for cleanliness	◆	◆	◆	◆
Check that the correct number of wash pipe end caps is present	◆	◆	◆	◆
Check the spray pattern (the whole width of the belt must be covered by the spray). The pressure from the lower spray must be controlled so that the lightest dish does not rotate		◆		

4. Clean water rinse system

Check motor power switch (if present)				
Check motor for exterior damage			◆	◆
Check current consumption (I_N see wiring diagram)			◆	◆
Check motor for quiet running (bearing damage)			◆	◆
Check ventilation grid for cleanliness			◆	◆
Check pump power switch (if present)				
Check sliding ring seal for watertightness (external visual check)		◆	◆	◆
Replace sliding ring seal				Approx. every 2 years Approx. every 3000 h
Check pump impeller for damage				◆
Check pump housing for damage		◆	◆	◆
System				
Check the complete system for damage and watertightness		◆	◆	◆
Check nozzles for cleanliness	◆	◆	◆	◆
Check water quantity (use the water meter or measure manually)			◆	◆
Clean the inlet tank				◆
Check float switch function			◆	◆

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	Service step ①	②	③	④
Maintenance	Cleaning works **Daily**	At least once **quarterly**	At least once **or twice a year** but **every 1000 h**	At least once **yearly** but **every 2000 h**

VERY IMPORTANT: **Whenever any electrical components are disconnected and reconnected, replaced or repaired, a safety test must be conducted, at least on these components!!!**

5. Pumped water rinse system

Check motor (if present)				
Check motor for exterior damage			◆	◆
Check current consumption (I_N see wiring diagram)			◆	◆
Check motor for quiet running (bearing damage)			◆	◆
Check ventilation grid for cleanliness			◆	◆
Check pump (if present)				
Check sliding ring seal for watertightness (external visual check)		◆	◆	◆
Replace sliding ring seal				Approx. every 2 years Approx. every 3000 h
Check pump impeller for damage				◆
Check pump housing for damage		◆	◆	◆
Check pump screen (suction side) (if present)				
Check pump screen condition		◆	◆	◆
Thoroughly clean fixed pump screen internally				◆
Clean removable pump screen internally/externally	◆	◆	◆	◆
System				
Check the complete system for damage and watertightness		◆	◆	◆
Check nozzles for cleanliness	◆	◆	◆	◆

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	Service step ①	②	③	④
Maintenance	Cleaning works **Daily**	At least once **quarterly**	At least once **or twice a year** but **every 1000 h**	At least once **yearly** but **every 2000 h**

VERY IMPORTANT: **Whenever any electrical components are disconnected and reconnected, replaced or repaired, a safety test must be conducted, at least on these components!!!**

6. Chemical Super Save System

Check motor (if present)				
Check motor for exterior damage			◆	◆
Check current consumption (I_N see wiring diagram)			◆	◆
Check motor for quiet running (bearing damage)			◆	◆
Check ventilation grid for cleanliness			◆	◆
Check pump (if present)				
Check sliding ring seal for watertightness (external visual check)		◆	◆	◆
Replace sliding ring seal				Approx. every 2 years Approx. every 3000 h
Check pump impeller for damage				◆
Check pump housing for damage		◆	◆	◆
Check pump screen (suction side) (if present)				
Check pump screen condition		◆	◆	◆
Thoroughly clean fixed pump screen internally				◆
Clean removable pump screen internally/externally	◆	◆	◆	◆
System				
Check the complete system for damage and watertightness		◆	◆	◆
Check nozzles for cleanliness	◆	◆	◆	◆
Check recirculation system cyclones and pipes for cleanliness			◆	◆
Check function and cleanliness of water by-pass. Clean pipes			◆	◆

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	Service step ①	②	③	④
Maintenance	Cleaning works **Daily**	At least once **quarterly**	At least once **or twice a year** but **every 1000 h**	At least once **yearly** but **every 2000 h**

VERY IMPORTANT: **Whenever any electrical components are disconnected and reconnected, replaced or repaired, a safety test must be conducted, at least on these components!!!**

7. Heat pump (if present)

Check motor				
Check circulating pump motor for external damage			◆	◆
Check circulating pump current consumption (IN see wiring diagram)			◆	◆
Check circulating pump motor for quiet running (bearing damage)			◆	◆
Check circulating pump motor ventilation grid for cleanliness			◆	◆
Check condenser motor current consumption (IN see wiring diagram)			◆	◆
Check condenser motor for quiet running (bearing damage)			◆	◆
Check pump (if present)				
Check sliding ring seal for watertightness (external visual check)		◆	◆	◆
Replace sliding ring seal				ca. alle 2 Jahre alle ca. 3000 h
Check pump impeller for damage				◆
Check pump housing for damage		◆	◆	◆
Check pump screen (suction side) (if present)				
Check pump screen condition		◆	◆	◆
Thoroughly clean fixed pump screen internally				◆
Clean removable pump screen internally/externally	◆	◆	◆	◆
Heat exchanger				
Check heat exchanger for cleanliness			◆	◆
Clean heat exchanger with hot water				◆
Check heat exchanger watertightness				◆
Airbox / Airbox-Plus				
Check the Airbox / Airbox-Plus for cleanliness and clean if necessary. Clean adjusting plates / drip guards.			◆	◆
System				
Check the complete system for damage and watertightness		◆	◆	◆
Check circulation pipes for cleanliness andy function. Clean pipes and coaxial heat exchanger			◆	◆
Determine if a regular heat pump check is necessary. (See heat pump Operating Instructions attached)			◆	◆

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	Service step ①	②	③	④
Maintenance	Cleaning works **Daily**	At least once **quarterly**	At least once **or twice a year** but **every 1000 h**	At least once **yearly** but **every 2000 h**

VERY IMPORTANT: **Whenever any electrical components are disconnected and reconnected, replaced or repaired, a safety test must be conducted, at least on these components!!!**

8. Drying				
Fan				
Check fan for exterior damage			◆	◆
Check current consumption (I_N see wiring diagram)			◆	◆
Check fan for quiet running (bearing damage) (visual and noise check)			◆	◆
Check suction side grid for cleanliness			◆	◆
Damper register (steam or hot water)				
Check damper register for cleanliness			◆	◆
Clean damper register with hot water				◆
Check damper register for watertightness (heating medium)				◆
Blowing box				
Check fan system nozzles for damage		◆	◆	◆
Function check				
The suction side temperature must not exceed $_{x1}$°C.				◆
Check internal drying chamber for cleanliness			◆	◆
Clean internal drying chamber with hot water (remove greases and oils)				◆
$_{x1}$ see later				
9. Heat recovery				
Exhaust fan				
Check fan for exterior damage			◆	◆
Check current consumption (I_N see wiring diagram)			◆	◆
Check fan for bearing noise (damage to bearing)			◆	◆
Check protection grid for cleanliness			◆	◆
Heat exchanger				
Check heat exchanger for cleanliness			◆	◆
Clean heat exchanger with hot water				◆
Check heat exchanger watertightness				◆

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10. Machine housing and built-in components				
Check machine housing, tank, doors for watertightness			◆	◆
Check machine housing, tank, sheet metal body, doors, sub-structure cladding, entry and discharge sections as well as flaps for damage and for correct position. Check that all are complete and correctly inserted. Check sub-structure cladding, entry and discharge sections for damage and if they are complete.	◆	◆	◆	◆
Check the splash curtains for damage and correct position and if they are complete		◆	◆	◆
Check tank covering screens and screen box for damage and correct position and if they are complete		◆	◆	◆
Check door guide rails		◆	◆	◆
Check door roller springs (exchange all even if only one is defective)		◆	◆	◆
Check electrical door control switch function		◆	◆	◆
Check door control switch for mechanical damage		◆	◆	◆
11. Equipment area				
Checks on operating temperature and water consumption				
Measure tank water temperatures ($_{x2}$), rinse water temperatures ($_{x3}$) and drying temperatures ($_{x4}$) and compare with values in the documentation			◆	◆
$_{x2, x3, x4,}$ see later				
Heating system				
Check the complete system for watertightness				◆
Clean dirt trap			◆	◆
Check function of the valves			◆	◆
Clean water system (Chapt.15)				
Check the complete system for watertightness				◆
Clean dirt trap			◆	◆
Check function of the valves			◆	◆
Clean level control	◆	◆	◆	◆
Check level control function			◆	◆
Check water supply quality – water hardness (acc. to the installation plan)			◆	◆
Check machine and all components for lime-scale deposits. Descale, if necessary			◆	◆
Check water supply quality – conductivity $_{x5}$ for demineralised water or reverse osmosis water			◆	◆
Check water supply quality – temperatures (acc. to the installation plan)		◆	◆	◆
$_{x5}$ see later				

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VERY IMPORTANT: **Whenever any electrical components are disconnected and reconnected, replaced or repaired, a safety test must be conducted, at least on these components!!!**

12. Waste water equipment				
Check if outlet screens are present	◆	◆	◆	◆
Check outlet screens function (bayonette)		◆	◆	◆
Check drain cocks and standpipes for watertightness			◆	◆
13. Electrical equipment				
Check power consumption of all heating elements(IN see wiring diagram)				◆
Tighten all screwed fuses and connections				◆
Check all switches for correct operation and damage (see electrical wiring diagram)				◆
Carry out a visual check on all electrical equipment (e.g. switches, cables, housings, covers).				◆
Check the switch cabinet ventilator entry and discharge filters (if present)			◆	◆
Ensure the operator is aware of the need for electrical safety checks. (According to BGVA 3: once at least every 4 years)				◆
14. Detergent dosage				
Check function (if possible, coordinate with chemical supplier)			◆	◆
15. Rinse agent dosage				
Check function (if possible, coordinate with chemical supplier)			◆	◆
16. Function test on the complete machine				
Check machines for the interaction of all functions			◆	◆
Dishwashing test Check cleaning results, drying results			◆	◆
If necessary take a view on the starch levels and discuss with the chef			◆	◆
Air compressors (if present)				
Check oil level		◆	◆	◆
Remove condensation water from reservoir tank		◆	◆	◆
Observe the manufacturer's operating instructions in all cases				
Booster pump installation (if present)				
Check for watertightness			◆	◆
Check the admission pressure into the expansion chamber			◆	◆

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	Service step ①	②	③	④
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17. Visual check on the machine environment

Foaming detergents must not be used close to the machine area and not in connection with the machine	◆	◆	◆	◆
Water treatment installation (if present)				
Reverse osmosis installation (visual check); inform customers on the necessity of installation maintenance			◆	◆
Demineralisation installation (visual check); inform customers on the necessity of installation maintenance			◆	◆
Observe the manufacturer's operating instructions in all cases				
Air gap according to WRC (if present, i.e. for England)				
Check the spray pattern for the perlator nozzle (on the water discharge)		◆	◆	◆
Clean / descale the perlator nozzle (on the water discharge)				◆

x1 Maximum suction temperature fan 0 550 056 75°C
Maximum suction temperature fan 0 550 050 75°C

x2	Pump pre-cleaning temperature	according to DIN 10510	40°C to 50°C
	Detergent circulation tank temperature	according to DIN 10510	55°C to 65°C
x3	Clean water rinse temperature	according to DIN 10510	80°C to 85°C
x4	Dryin temperature	according to DIN 10510	not specified (see x_1)

x5 Minimum water quality according to the VGG
Total salt content: max. 400 ⌖S/cm for porcelain and opal glass
max. 100 ⌖S/cm for glass
max. 80 ⌖S/cm for stainless steel (cutlery)

The service steps Servicestufen ① - ④ must be carried out by personnel trained for this purpose.

① trained operating personnel
② company tradesman after instruction
③ trained company tradesmen or installation engineers
④ installation engineers trained by MEIKO

You can document the completed maintenance work on the following pages. Meiko recommends that you enter the half-yearly service steps (③), and the annual service steps (④).

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Date:	Service step		Name: Completion Installation engineer	Name: Confirmation Customer
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Gruppe
Group
Groupe

Das Programm auf einen Blick	Our product range	Notre gamme de production
1 **Spülautomaten mit stationärem Waschverfahren** Geschirr- und Gläserspülautomaten; Topf- und Behälterspülautomaten; Salat- und Gemüsewaschautomaten	**Automatic dishwashing machines** with fixed washing system	**Lave-vaisselle à procéder de lavage stationnaire** Automates de lavage
2 **Spülautomaten mit Durchlaufsystem** Geschirrspülautomaten mit Bandtransport-, Korbtransport- oder Umlaufsystem	**Belt conveyor and rack transport machines** for continuous throughput operations	**Lave-vaisselle automatiques à passage continu** Lave-vaisselle automatiques à conveyeur et à transport de paniers
3 **Spezialspülanlagen** Vollautomatische Spülanlagen für Geschirr, Tabletts und Besteck; Flight-Catering-Anlagen; Industriespülautomaten; Trolley-, Behälter- und Transportwagenspülanlagen	**Special purpose warewashing solutions** such as semi and fully automatic systems, designed for the catering industry in general	**Lave-vaisselle spéciaux** Installations de lavage entièrement automatiques et semi-automatiques, lave-vaisselle industriels
4 **Förderanlagen** Tablett- und Geschirrtransportbänder, Geschirrsortier- und Stapeleinrichtungen	**Conveying systems** for vertical and horizontal transport of trays and dishes	**Installations de transport** pour le transport vertical et horizontal de plateaux
5 **Speisereste-Behandlungsanlagen** Maschinen und Anlagen zur Aufbereitung von Speiseresten für eine umweltgerechte Entsorgung	**Food waste treatment systems** Water conditioning appliances	**Installations de traitement de déchets alimentaires** ainsi que des installations de traitement d'eau
6 **Großkücheneinrichtungen** Geräte und Mobiliar für Relais- und Stationsküchen; Transportwagen; Tablett- und Tellerstapler; Tische, Schränke und Regale aus Edelstahl; diverse Organisationsmittel	**Central wash-up equipment** Tables, cabinets, tray and plate stackers	**Installations pour grandes cuisines** Tables, empileurs de plateaux et d'assiettes
7 **Sanitäreinrichtungen für Krankenhäuser und Heime** Reinigungs- und Desinfektionsautomaten für Steckbecken und andere Pflegegeschirre; Pflegekombinationen; Komplettausstattung für Unreine Arbeitsräume	**Sanitary appliances for healthcare establishments** Automatic cleaning and disinfection appliances for bedpans and other care utensils	**Installations sanitaires pour hôpitaux et maisons de soins** Automates de nettoyage et de désinfection, combinés de soins

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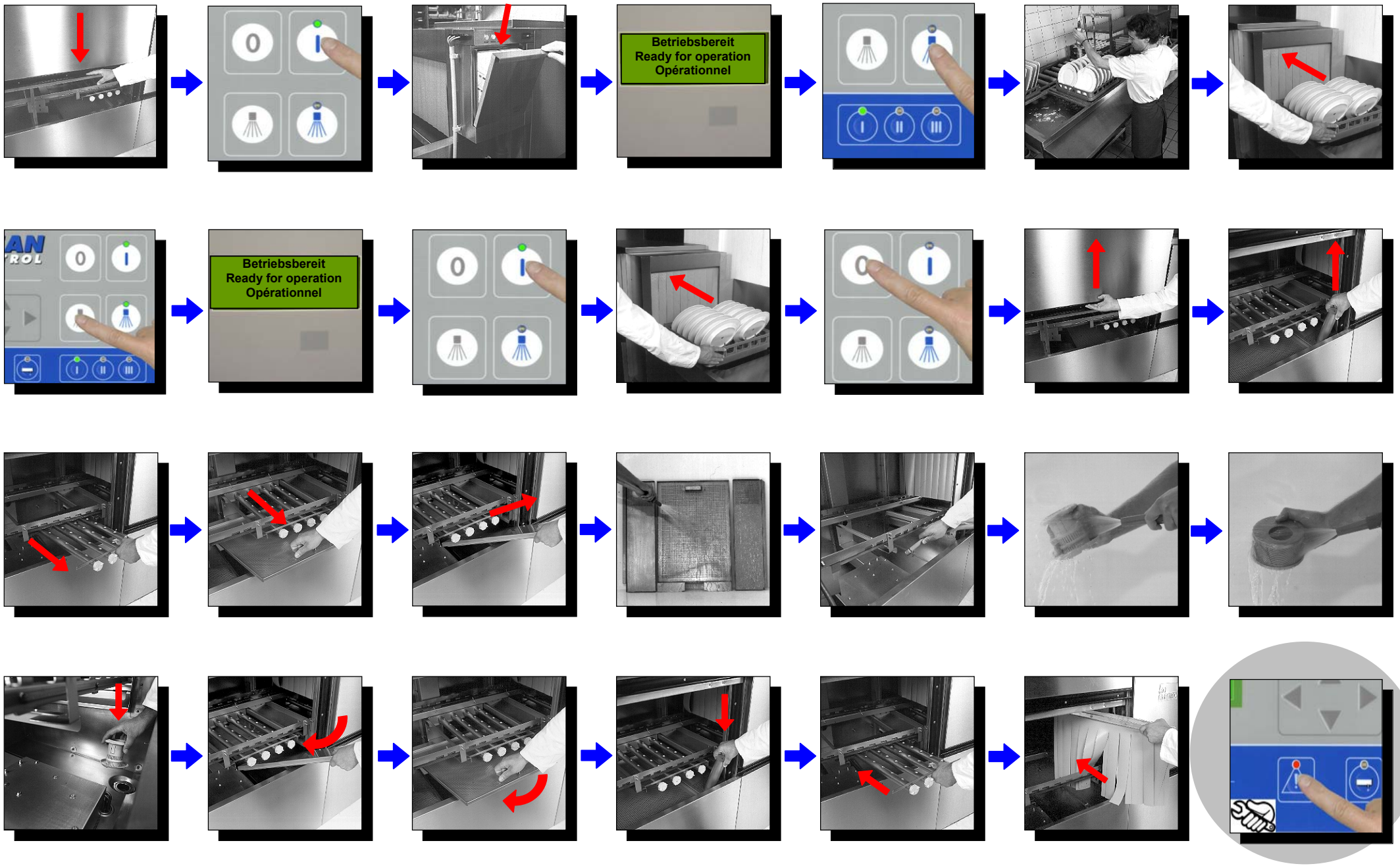
Kurzbetriebsanleitung für MEIKO-Korbtransportautomaten, Clean Control (MIKE)

Short operating instruction for MEIKO-basket transport dishwashing machines, Clean Control (MIKE)

Court mode d'emploi pour lave-vaisselle automatiques à transport de paniers MEIKO, Clean Control (MIKE)



Service instructions

Operating instructions

Service instructions

Technical datas

Commissioning

Guide for trouble-shooting

Spare parts list

Service adresses

Miscalleneous

Service instructions

MEIKO – Dishwashing machine model K-Tronic

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Contents

		Page
1	**Introduction and general information**	**3**
1.1	Explanation of the safety symbols used	4
1.2	Authorized users of this documentation	4
2	**General safety instructions**	**5**
2.1	Operator's duty of care	5
2.2	Fundamental safety measures	5
2.2.1	Working on electrical equipment	6
2.3	Connection to the electricity supply	6
2.4	Connection to energy optimisation units	7
3	**Commissioning**	**7**
4	**Instructions for commissioning**	**7**
4.1	Works to be carried out before commissioning	7
4.2	Chemical product settings	8
5	**Brief description of the controls**	**8**
6	**Operating level**	**9**
6.1	Operation	9
6.2	Information output	10
6.3	I/O Status OUTPUT	11
7	**PARAMETERISE**	**13**
7.1	Access to the parameter setting level	14
7.2	User level 1 - User	15
7.2.1	User parameter (P101 ... P130)	15
7.2.2	Set date and time	16
7.2.3	Conveyor backwards (Option)	16
7.3	User level 2 - Technician	16
7.3.1	Other parameters	16
7.3.2	View refilling cycles (Option)	18
7.3.3	Rinse water manual measuring	18
7.3.4	Small pre-wash (KV)	19
7.3.5	Pre-wash tank (PW)	19
7.3.6	Wash tank 1-.. 7 (WT 1 .. 7)	19
7.3.7	Pump final rinse (PAR)	19
7.3.8	Final rinse 1 / 2 (FR / FR2)	19
7.3.9	Drying (BD)	20
7.3.10	Heat pump (HP)	20
7.3.11	Transport (TRSP)	20
8	**Error indication, Information and Instructions**	**21**
8.1	Error indication, no wash process possible	21
8.2	Error indication, restricted wash process possible	22
8.3	Other possible malfunctions	27
9	**Corrosion signs**	**28**
10	**Final decommissioning / Disposal of the appliance**	**28**

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1 Introduction and general information

To the authorised customer service technician,

Please first read the Installation Instructions, the Operating Instructions and these Service Instructions carefully.

These instructions will familiarise you with
- The installation
- The operating methods
- Its use
- The safety instructions and
- the maintenance

of this cleaning and disinfection appliance.

In the event of any damage caused by non-observance of these operating instructions, any guarantee claims are invalid. We accept no liability for any consequential loss or damage arising as a result.

MEIKO is constantly working on the further development of all its models. We would therefore ask you to understand that because of this, we must reserve the right to make modifications at any time to any items covered by the contract in terms of their shape, fittings and technical characteristics.

No claims may therefore be based on the details, the images or the descriptions contained in these operating instructions.

You receive this Service Instruction free of charge. Further copies may be made available against the payment of a fee.

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1.1 Explanation of the safety symbols used

The following safety symbols will appear throughout these service instructions.

ATTENTION!	This symbol warns that there is danger to human life and health.
	Warning of dangerous electrical current!
	Warning of possible hand injuries!
	Beware of hot water / (hot surfaces)
DANGER!	This symbol warns that there is danger to the installation, to the material or to the environment.
	Do not spray with a hose or a high pressure cleaner!
	Use protective gloves!
	Use safety glasses or goggles!
	This symbol denotes information that helps you to understand the installation's operation.

1.2 Authorized users of this documentation

The works described in these Service Instructions may only be carried out by specialists of the manufacturer, the responsible agency or an authorized dealer.

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2 General safety instructions

2.1 Operator's duty of care

Measures to ensure the safe operation of the machine:
The operator must ensure in particular that ...

... … in order to preserve the operational and safety guarantees, whenever required, only original parts supplied by the manufacturer are used.

…the user will lose the right to any possible claims if the appliance is modified using any parts other than original parts.

ATTENTION!

..... a functional test on all safety systems of the machine is carried out during every regular maintenance.

Be careful when closing the wash-chamber door. **Do not catch your hand!**

ATTENTION!

You must not make **any alterations** after the assembly, commissioning and the hand-over of the machine to the customer/operator (e. g. electrical connection, supply of water, steam, connection to waste water or position). Modifications of the appliance, especially technical modifications without the written approval of the manufacturer and from non-authorized persons lead to the total **loss of the right to claim under the guarantee** and invalidate our product liability.

2.2 Fundamental safety measures

ATTENTION!

Danger can arise from the improper use of the cleaning and disinfection machine or if it is used for purposes for which it was not intended.

Parts carrying electric current as well as moving or rotating parts can cause
- Dangers to the user's life and limb and
- Material damage

The machine operates with hot water.
Avoid all contact with the rinse water. There exists therefore the **danger of scalding.** As a result, the dishes etc being washed are at high temperature. Take suitable precautions. Observe all the instructions posted on the machine.

WARNING!
When electrical equipment is in operation, it is inevitable that certain parts carry a dangerous current.
ALL current to the whole machine MUST be switched off before the machine's cladding or electrical equipment is opened.
PLACE THE MAIN SWITCH IN THE "OFF" POSITION and install suitable security measures to prevent the switch from being switched on.
Work on and rectification of malfunctions on the electrical portion of the appliance must only be carried out by specialists who have been trained and authorised by MEIKO. The Health and Safety Regulations must be observed.

The machine, switch cabinets and other electrical components must NOT be sprayed with a hose or a high pressure cleaner.

ATTENTION!

Repairs and maintenance on the cleaning and disinfection appliance must only be carried out by specialists who have been trained and authorised by MEIKO.
Work and malfunction rectification on the steam installation must only be carried out by specialists.

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Use safety glasses or goggles!
Always wear safety glasses or goggles when working on the dosing system.

WE ACCEPT <u>NO LIABILITY</u> FOR DAMAGE OR INJURY ARISING FROM FAILURE TO OBSERVE AND ABIDE BY THESE SAFETY INSTRUCTIONS.

2.2.1 Working on electrical equipment

ATTENTION!

Any repair work and repairs to the power supply on the installation's electrical equipment may only be carried out by a qualified electrician trained and authorized by MEIKO.

Check the electrical equipment regularly!
Tighten any loose connections!
Replace any damaged leads/cables immediately!

Always keep the switch cabinets locked! Access is only allowed to qualified persons.

2.3 Connection to the electricity supply

Work on the electrical part of the machine may only be undertaken by specialist personnel.

ATTENTION!

The wiring diagram is located in the switch cabinet. This wiring diagram is part of the machine and therefore must not be removed.

The manufacturer's plate with the connected electrical loads is located inside the switch cabinet.
General Electrical Regulations must be observed when connecting the machine to the power supply.

<u>Attention:</u>
The fuses on site must be selected to suit the local conditions and the appliance's nominal current in such a way that back-up protection is guaranteed (Germany: VDE 0100).
The mains supply cables must be provided with fuses in accordance with regulations and must have a main switch (accessible on site or inside the appliance for operating personnel). If the neutral conductor (N) is not grounded, a 4 phase main switch must be used. Cables connecting to the main power supply must be oil-resistant and sheathed and must not be lighter than an H 07 RN-F cable. The potential equalisation connection must be carried out in accordance with the requirements of the local electricity supply company and all applicable local regulations (in Germany VDE 0100 Part 540 must be observed).
Where VDE 0160 / EN 50178 applies, there is a requirement that in areas of electrical equipment where line-side residual current protective circuit breakers (FI) are planned or installed, an FI type B device sensitive to all types of currents must be installed before the FI type A.
For the supply connection use a 5-pole terminal strip (L1, L2, L3, N, PE).

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The electrical connection data, voltage, type of current, output can be seen on the manufacturers' plates on the machine.

Please check the voltage.

All electrical connections must be made inside the electrical switch cabinet by means of marked screwed cable glands as in the circuit diagram and connected to the terminals and the fuses provided.

Every time that electrical components are replaced, repaired or connected and disconnected, a safety test must be conducted on at least the relevant component!

2.4 Connection to energy optimisation units

The following points must be observed if the appliance is connected to an energy optimisation unit:

1. Because of the voltage drop, the cable to the heating system contactor which is to be used for the switching operation must be limited to a length of 100 metres in the case of 1.5 mm^2 cross-section.
2. The disconnection period must not exceed 10 seconds per minute. Ensure that the programs are extended by the disconnection period.

3 Commissioning

In order to avoid damage to the installation and the injury and death of persons when commissioning the installation, the following points must be observed without fail:

Any necessary initial tests to parts supplied by sub-suppliers, such as heat pumps or other equipment, must be carried out. More detailed information, if required, can be found in the relevant Instructions for Use.

ATTENTION!

- The installation may only be commissioned by suitably qualified persons observing the safety instructions.
- Before initial startup, check that any tools and parts not belonging to the installation have been removed.
- Check whether any escaping liquid is removed.
- Activate all the safety systems and door switches before commissioning.
- Check that all screw connections are tight.
- Please also read the chapter on "General safety instructions ".

Commissioning and instructions will be provided by technicians specially trained by Meiko. After these processes are complete, the installation will be handed over to the authorized person who will sign for it. The appliance may only be used after the instruction has been completed.

4 Instructions for commissioning

4.1 Works to be carried out before commissioning

All the points in this section must be observed before initial commissioning.

Water pipes

All pipes must be thoroughly flushed out. The heating system must not be switched on when this is being done (remove the fuses) in order to prevent the heating elements from operating when the system is dry. All dirt collectors must be cleaned afterwards.

Steam pipes

All pipes must be thoroughly flushed out. When doing so, all control valves must be fully open and all condensate traps removed. All dirt collectors must be cleaned afterwards.

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Connection to the electricity supply

- Tighten all electrical terminals in the switch cabinet; check that electrical plugs/jacks are firmly in position.
- All motors must be checked for the correct direction of rotation.
- Carry out a visual check on all electrical equipment (e.g. switches, cables, housings, covers).
- Carry out functional tests on all electrical switches.

Internal regions of the machine
Ensure that there are no foreign bodies inside the machine (e.g. cleaning rags, loose bolts/washers/nuts, tools, packaging materials etc.).

Important !!!
Ensure that friction cannot occur where moving parts pass close to fixed parts. (e.g. rails, water deflectors and others).

Ensure that all wash pipes, wash systems, rinse arms, screens and filters, tank covers, waste pipes, waste screens and swing valves on the entry and discharge section are installed. Ensure that all the parts are correctly installed.

4.2 Chemical product settings

The correct settings for the quantity of detergent and rinse agent depend on the product used. The relevant chemical supplier can install the correct setting.

5 Brief description of the controls

The controls consist of the following components:

CPU circuit board, MIKE2-CPU2 circuit board
The clear text display (LCD display with 4 x 20 characters), the micro-processor, an EPROM and an EEPROM are on the CPU circuit board. The control software is located in the EPROM and the EEPROM. The CPU circuit board communicates with the I/O circuit board via the CAN-bus.

Power pack, MIKE2-NET1 circuit board
A primary pulsed switching power pack with an input voltage range of 180 to 265 V (50 – 60 Hz) is used. The output side consists of 12 V DC and 24 V DC with a maximum output of 50 W.

Input/output MIKE2-E/A1 circuit board
On the basis of the modular concept (CAN bus), different system configurations can be realized depending on the requirement.
Depending on the stage of development, one or more E/A3 circuit boards are used for recording/controlling the periphery in addition to the E/A1 circuit board.

The so-called tank circuit boards TP) are connected in parallel to the E/A3 circuit board via a ribbon cable.
Up to max. 6 of these tank circuit boards are recorded by an E/A3 circuit board. These tank circuit boards are mounted externally on the individual circulation tanks (apart from KV) and indicate the *Min. filling level*, the *Max filling level* at the tank furthest away from the main wash tank (WT1), a group signal *DOOR CLOSED* and max. 4 tank temperatures to the CPU via the E/A3 circuit board.

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6 Operating level

6.1 Operation

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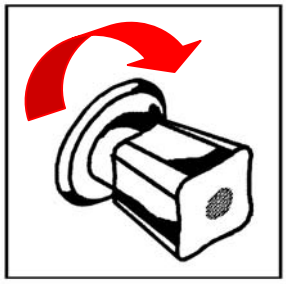
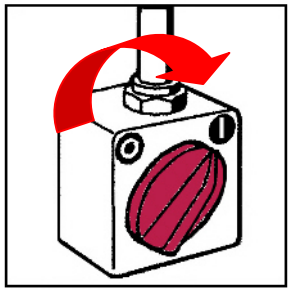
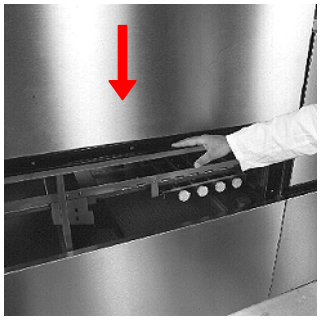
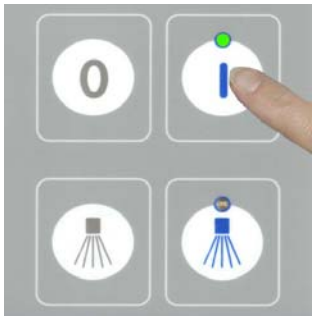
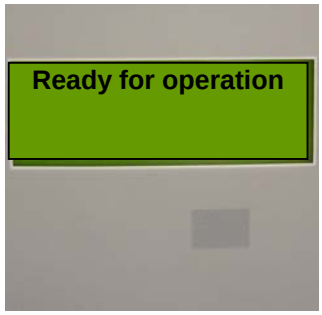
<td>  </td>
<td>  </td>
<td rowspan="2">Ensure that all wash pipes, wash systems, rinse arms, screens and filters, tank covers, waste pipes, waste screens and swing valves on the inlet and waste pipes are installed.
Ensure that all the parts are correctly installed!</td>
</tr>
<tr>
<td>Open the stop valve in the water pipe.</td>
<td>Switch on the power supply from the building.</td>
</tr>
<tr>
<td>  </td>
<td> 
</td>
<td> 
</td>
</tr>
<tr>
<td>Close the doors.</td>
<td>The wash tanks can be automatically filled and heated by means of the ”Fill/Heat“ button.</td>
<td>Once the wash tanks are filled and have been heated to the washing temperature, the display will show: “Ready for operation”</td>
</tr>
<tr>
<td> </td>
<td colspan="2" rowspan="2">Once the wash tanks are filled and have been heated to washing temperature, the machine is started with the ”Start“ button. The conveyor and the wash pumps now operate so that the washing process can begin. The machine is normally equipped with rinse water conservation; in other words the rinse process is not in operation continuously.

All other functions, e.g. temperature monitoring or wash tank water level checks are performed by the machine control; thus no other manual operations or checks are needed.</td>
</tr>
<tr>
<td>Press the start button to start the dishwasher</td>
</tr>
</table>

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6.2 Information output

Information output from Eprom version V0.9N uses the following tree structure so as to improve the structure of the information.

Information output
- Temperatures
  - Temperature VA
  - Temperature WT6
  - Temperature ...
  - Temperature WT1
  - Temperature PKSP
  - Temperature KSP1
  - Temperature KSP2
  - Temperature TR
- Operating times (incl. date of reset)
  - Next maintenance
  - Total operating time
  - Wash pump operating time
  - Drying fan operating time
  - Basket counter
- Consumption (incl. date of reset)
  - Water consumption KSP1
  - Act. flow KSP1
  - Water consumption KSP1
  - Act. flow KSP2
  - Water consumption (filling water)
- General
  - AU no.
  - Serial number
- Heat pump
  - Status heat pump (hot gas bypass)
- Operation diary
  - View operation diary
  - Water change?
  - Basic cleaning?
  - Repair?
  - Rinse agent change?
  - Detergent change?

Certain information (described in the following table) can be called up irrespective of the process status of the appliance by pressing the arrow key ▲ or ▼.
Pressing the arrow button moves you onto the next or the previous line. The output of information is ended in the last line by pressing ▼, or (if you are in the 1st line) by pressing ▲.
If the arrow is not pressed for a defined time, the information output phase is automatically left. (Information output is released only in the operating level, and not during the paramterise).

The date of the last re-set will be shown as well as the value that was captured.

Some more details on each item:

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Information output	Note
Next maintenance in	Operating hours till next maintenance
Total Operation time	Counting up in the operating conditions Filling/Heating/Ready for op./Operation
Running time Wash pumps	Counting up while WP ON; Applies as reference for maintenance!
Running time Drying fan	Counting up while fan ON;
Number of baskets	If basket counter available;
FR water consumption	Display with one decimal place
FR water flow	Current actual value
FR2 water consump.	Display with 1 decimal place (Only if available)
FR2 water flow	Current actual value (Only if available)
Water consumption filling valve	Only if water meter available (see separate parameter)
Temperature PW	Actual temperature prewash tank (PW) (Only if available)
Temperature WT6	Actual temperature wash tank 6 (WT6) (Only if available)
Temperature WT5	Actual temperature wash tank 5 (WT5) (Only if available)
Temperature WT4	Actual temperature wash tank 4 (WT4) (Only if available)
Temperature WT3	Actual temperature wash tank 3 (WT3) (Only if available)
Temperature WT2	Actual temperature wash tank 2 (WT2) (Only if available)
Temperature WT1	Actual temperature wash tank 1 (WT1) (Only if available)
Temperature PAR	Actual temperature pump final rinse (PAR) (Only if available)
Temperature FR	Actual temperature final rinse 1 (FR)
Temperature FR2	Actual temperature final rinse 2 (FR2) (Only if available)
Temperature Drying	Actual temperature drying (Only if available)
Serial number	Option for calling up works parameters
Order number	Option for calling up works parameters
Heat pump deactivated or Defrosting in operation or Power regulation in operation Or Defrosting / Power regulation in operation or Hot gas by-pass OFF	Only if a heat pump is available Output depending on the status of the entries *low pressure switch* *defrosting* or *high pressure switch* *power regulation*

6.3 I/O Status OUTPUT

When the machine is in the operating conditions *Machine Off, Fill/Heat, Ready for Operation, Operating* and *Pumping out,* it is possible (option) to obtain information on the status of digital inputs and outputs and the temperatures of an I/O module in the 1st, 3rd and 4th lines (the 2nd column continues to display the operating condition).

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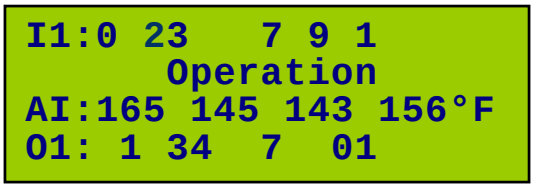
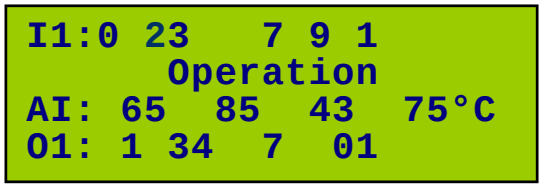
It is helpful to obtain detailed information without having to look elsewhere when servicing and commissioning machines (e.g. connect notebook).

If the information display is not in current use, status information on the inputs/outputs from the individual I/O circuit boards can be called up at the same time as the process (but not when in parameterising mode) provided that the function is available (see service level parameter P128).

By pressing the arrow key ➔ or ← (depending on the process status of the appliance) current status information on the inputs/outputs can be called up as described in the examples below. Each touch of the key moves you onto the next or the previous available input/output circuit board address. The I/O status display is ended by pressing the ➔ key on reaching the last address or pressing the ← key on reaching the first address. If no arrow key is pressed for a specific period (4 minutes), the input/output status output is automatically left.

If the option “display input / output status“ has been activated, the LCD display appears as follows (time, date, etc is therefore removed and only the information from an input / output component can be displayed. The selection function is available):





The 1st line shows the status of the following inputs (activated display of the number means that current can flow (status 1)):
From the left: 0, 1, 2, ..., 7 Digital inputs as in the circuit diagram
8, 9, 0, 1 Condition of the conductivity inputs/digital inputs as in the circuit diagram (only for I/O1 circuit board)
(the above example indicates that I1.0, I1.2, I1.3, I1.7, I1.9, I1.11 are active)

The outputs are arranged as follows in line 4 (activated display of the number means that the corresponding output has just been switched on):
From the left: O1: 0, 1, 2, ..., 9, 0, 1 outputs 0 .. 11 as in the circuit diagram
(the above example indicates that O1.1, O1.3, O1.4, O1.7, O1.10, O1.11 are active)

The temperatures of the sensors connected to the corresponding I/O circuit board are shown in line 3:

From left: Temperature 1
Temperature 2
Temperature 3 (only I/O3 circuit board)
Temperature 4 (only I/O3 circuit board)

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7 PARAMETERISE

The following describes how the user can set and adjust process parameters at a later date. Different **user access levels** have been realized:

Operating level -> All users (see chapture operating level)

- Operating the machine
- Acknowledging faults
- Reading out counter statuses (see information output)

User level (level 1) -> "Specialist distributors"
Access by entering a code (5 figures)
10000 read
10001 edit

Several sub-menus:
- View / amend list of configuration parameters
- Conveyor backwards (only as long as the button is activated)
- Set date + time

Technician level (level 2) -> Official Meiko works representatives:
Access by entering a code (5 figures)
20000 read
20022 edit

The user parameter list will be extended depending on the user level!

Further sub-menus (including user level):
- View / Control outputs (see “Manual Operation“)
- Rinse water manual measuring (1 min.)
- Refilling cycles (option)

Modification depending on the access level:
- view / amend transport (including I/O allocation)
- view / amend KV resp. CSS Top (including I/O allocation KV)
- view / amend PW (including I/O allocation PW)
- view / amend WT 1 .. 7 (including I/O allocation WT)
- view / amend PAR (including I/O allocation PAR)
- view / amend FR 1.2 (including I/O allocation WT)
- view / amend drying (including I/O allocation Drying)
- view / amend heat pump (including I/O allocation heat pump)
- view / amend global I/O allocation
- view / amend wash programs 1 .. 20

Generally is valid:

The following 6 buttons are used for dialogue in the parameter levels:
Arrow keys or - Browse the parameter list, change values (up / down)
Arrow keys or - Change to variable following to the left or right of the actual value
key - Accept value or selection (see *Return);*
- or changeover from view mode to edit mode

key - Leave the menu item (cf. the ESC key); in the edit mode you will be asked if the amendment you have just entered should be deleted and not saved. (Exception for the operation diary: Key)

The corresponding feedback responses are realized via the LCD module.
(The membrane key-pad LEDs are dark in parameterization mode).

If the or key (change value) is pressed for a longer period (e. g. 1 second) an auto-repeat function is activated; in other words, the list of possible values will be shown

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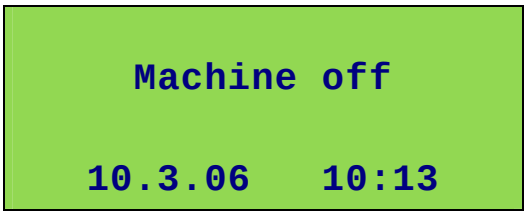
in quick succession (e.g. 5 values per second) until the key is released.

When in editing mode, the present parameter value flashes slowly to indicate the current parameter setting. If no key is pressed for a specific period, the parameter level is automatically left and the appliance reverts to "*Machine OFF*" status. All the other functions of the appliance are blocked while this dialogue is shown.

7.1 Access to the parameter setting level

Note on the code entry:
The code entered is compared with an internal code table after complete entry. The corresponding selection menu items are enabled, depending on the code entered.
2 access codes are stored for each user level; the first is for restricted access, i.e. it is not possible to change the parameters (view mode), the second enables the complete functional scope (changing values).
The access code for the technician level incorporates the user level.

Starting point: *Machine OFF*

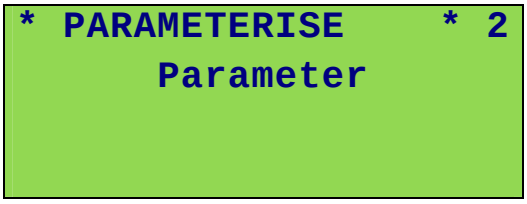


1. Access: Press the key for 2 seconds. You will then be asked to enter the access code:

2. Enter the access code (5 figures):
The cursor appears at the 1st figure (0 appears and flashes)
Use the or keys to move the first figure to the required value.

Use the and keys to move to the next position. Code entry is concluded by pressing the . key after entering all the required figures.

In the following the user level is indicated on the top right showing the corresponding number of the level.



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3. You can move through different sub-menus by using the arrow keys or .
The last displayed menu item is confirmed by pressing .
Selection:

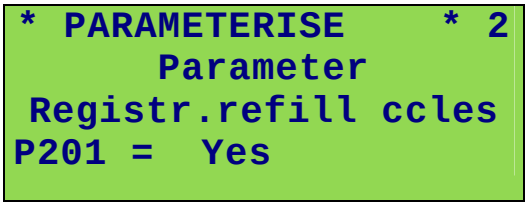
- View / amend parameter list

or

- Reverse conveyor

- etc.

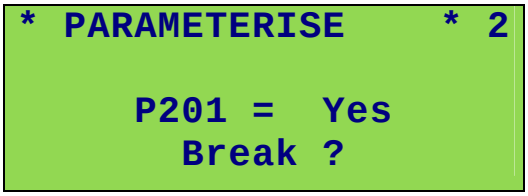
4. The first parameter in the list appears with its current value. You can move through the list by using the arrow keys and . It is possible to *edit* the value by pressing .



The value now flashes and can be amended within the appropriate range by pressing / .

The required value is confirmed / stored by pressing .

5. By pressing the key the editing can be aborted if an already modified value is not to be stored. However, in the edit mode you will be asked if the amendment you have just entered



should really be deleted and not saved. Consequently, the operator can correct the action in case the key has been activated erroneously. Confirmation by pressing or return by pressing .

7.2 User level 1 - User

7.2.1 User parameter

Par. No.	Text in LCD display	Description
108	Temperature in °F	LCD display: Standard (0): °C Option (1): °F Conversion: F = 9/5 * C + 32 or C = 5/9 * (F –32)
111	Time display	0: Time not displayed 1: displayed as 24 hour clock 2: displayed as 12 hour clock (am/pm) (Note: P110 has priority)
112	Date display	0: date not displayed 1: Format day.month.year (standard) 2: Format year.month.day 3: Format month.day.year (Note: P110 has priority)

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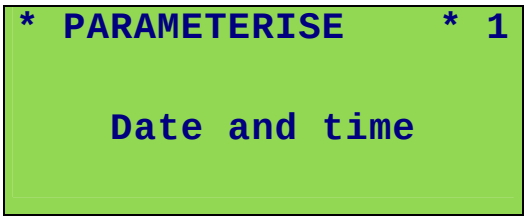
Par. No.	Text in LCD display	Description
113	Time selection poss	Option available ? (Automatic switch-on filling/heating)
114	Language	Collecting language EEprom contents
115	LCD contrast	0 .. 15 steps
116	LCD backlighting	0 .. 15 brightness steps
117	Flow rate in gall./h	Flow rate displayed in the following units: 0 : rate in litres / hour (l/h) 1 : rate in gallons / hour (g/h) here: US: 1 gal = 3.7854 L (UK: 1 gal = 4.5461 L))
129	Approve IR	Activate infrared interface

7.2.2 Set date and time



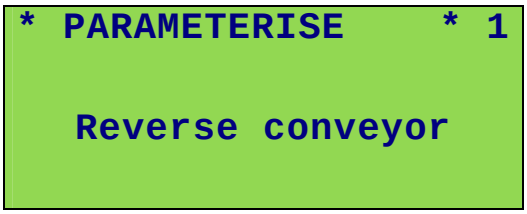
1. Scroll to the display "Set date and time".

Press the key -> Edit mode

2. The cursor is in the *sec.* field and is flashing: the arrow key or is used to correct the figure.
3. Use the arrow keys or to move to the next positions.
4. key -> Displayed settings are confirmed and edit mode is left.

7.2.3 Conveyor backwards (Option)

The conveyor is activated to move backwards as long as the key is released.



7.3 User level 2 - Technician

7.3.1 Other parameters

Par. No.	Text in LCD display	Unit	Description (0: no; 1: yes)
101	Reset maintn.counter		0: no; 1: yes Reset maintenance counter (When quitting the parameter level the reset is carried out)
102	Reset operation time		0: no; 1: yes Reset operation time (se operation diary)
103	Reset water consumpt.		0: no; 1: yes Reset water consumption, reset refilling cycles (se operation diary)
104	Wash program I		Allocation of a program number to button I
105	Wash program II		Allocation of a program number to button II
106	Wash program III		Allocation of a program number to button III
107	Default wash program		Preset definition

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			Program Selection button after reaching ready for operation
109	Temp.3rd line on/off		Display temperature according to P126 (3rd line) if: 0: no 1: Filling/heating 2: Ready for operation 3: Operation 4: always (1, 2 and 3)
110	Temp.4th line on/off		Display temperature according to P125 or P127 (1st or 4th line) if: 0: no 1: Filling/heating 2: Ready for operation 3: Operation 4: always (1, 2 and 3)
125	Temperature 1st line		Definition temperatures to be displayed per line Determination (2 temp. per line possible): 0: no display 1: Temp. PW 2: Temp. WT7 .. 8: Temp. WT1 9: Temp. PAR 10: Temp. FR 11: Temp. FR2 12: Temp. Drying Example: 8 10 WT1 FR
126	Temperature 3rd line		see P125
127	Temperature 4th line		see P125
128	I/O display active		Enable I/O status: 0: no 1: yes
201	Registr.refill ccles		Log refilling cycles; Activate monitoring ?
202	Error behaviour		Individual determinations: (Bit 7 ..... Bit 0) Bit 0: All pumps OFF and conveyor OFF if pump error Bit 1: All pumps OFF and conveyor OFF if fan error Bit 2: Conveyor stop in case of min. temp. WT Bit 3: Conveyor stop in case of min. temp FR1/2 Bit 4: Conveyor stop in case of low flow in FR Bit 5: Bit 6: Bit 7:
203	Starting condition	-	Define the criteria (temperature) for reaching "ready for operation": 0: set temperature of WT1 1: set temperature of PKSP 2: set temperature WT1 + P302 3: set temperature PKSP + P302 The actual temperature in WT1 and

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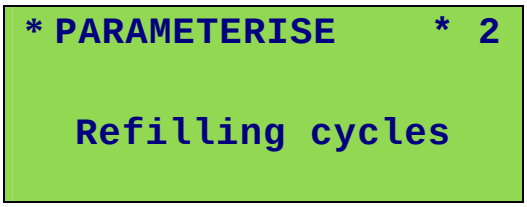
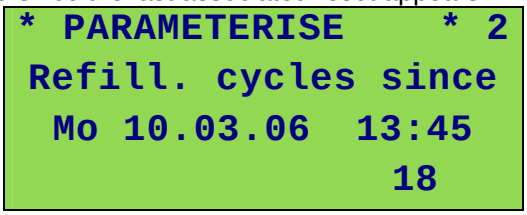
			PKSP must comply with the above conditions on one occasion.
204	All min lev for heat	-	Require all minimum queries (tank level) to be a condition for heating the tank.
205	Demo mode	sec.	0 : Normal operation Other: Demo mode with cycle time At start fill/heat, min 1, min 2 and max are simulated in turn in order to be able to demonstrate the machine without water (display..)
217	Running direction L>R		Only for visualization purposes 0: R -> L; 1: L -> R
218	Maintenance cycle		Number of operating hours to maintenance (in steps of 100);
220	Load setting param.		Possibility of loading works parameters
302	Offset tank temp	K	During filling/heating or in 'ready for operation' and operation (as long as the WP is not running) the tank temperature set value is increased by this offset
303	Pause time mix	Sek.	Waiting time till start of the recirculation pumps for mixing in filling/heating or in 'ready for operation' Precondition: MIN available, door CLOSED, wash pump OFF)
304	Circulation time	0,1 Sek.	Waiting time till start of the recirculation pumps for mixing in filling/heating or in 'ready for operation' (Precondition: Heating ON, door CLOSED, wash pump OFF)
306	Refill time	Sek.	Tank filling extension after reaching of all MIN. (only if MIN value fallen below)
307	Filling monitoring	Min.	Filling monitoring for reaching MIN query or MAX query (per tank)

7.3.2 View refilling cycles (Option)



On selection, the number of cycles entered since the last associated reset appears.



7.3.3 Rinse water manual measuring

On selection during 1 minute the mains

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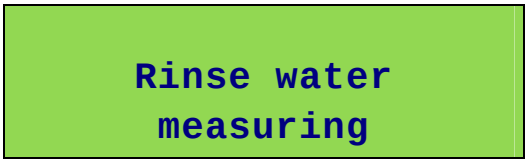
separation pump and the filling valve of FR/FR2 is activated.



7.3.4 Small pre-wash (KV)

Text in LCD display	Unit	Description
Overfill time	Sec.	Filling extension of the tanks after reaching MAX (only in filling/heating)

7.3.5 Pre-wash tank (PW)

Text in LCD display	Unit	Description
Set temperature	° C	Also a corrective valve in the rinse program (reduction)
Calibration sensor	K	Adjustment option
Drain Pump after-run	Min.	Wash-water pump after-run time after falling below MIN in VA
Deactiv. delay Refilling	Sec.	Deactivation delay if the water falls below the MIN level (only start re-filling after this time)

7.3.6 Wash tank 1-.. 7 (WT 1 .. 7)

Text in LCD display	Unit	Description
Set temperature	° C	Also a corrective valve in the rinse program (reduction)
Calibration sensor	K	Adjustment option
Drain Pump after-run	Min.	Wash-water pump after-run time after falling below MIN in VA
Deactiv. delay Refilling	Sec.	Deactivation delay if the water falls below the MIN level (only start re-filling after this time)

7.3.7 Pump final rinse (PAR)

Text in LCD display	Unit	Description
Set temperature	° C	Also a corrective valve in the rinse program (reduction)
Calibration sensor	K	Adjustment option
Drain Pump after-run	Min.	Wash-water pump after-run time after falling below MIN in VA
Deactiv. delay Refilling	Sec.	Deactivation delay if the water falls below the MIN level (only start re-filling after this time)

7.3.8 Final rinse 1 / 2 (FR / FR2)

Text in LCD display	Unit	Description
Set temperature	° C	Definition for controller and monitoring; Also a corrective valve in the rinse program (reduction)
Calibration sensor	K	Adjustment option

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7.3.9 Drying (BD)

Text in LCD display	Unit	Description
Set temperature	° C	Definition for controller and monitoring;
Calibration sensor	K	Adjustment option

7.3.10 Heat pump (HP)

Text in LCD display	Description
Deactivate heat pump	Instead of the heat pump functionality (compressor, fan, pump), additional heating is now activated in the FR (heating 3 parallel with heating 1) and the heating regulation enabled by WT1 (was not activated at all, or only activated to a limited extent, see cold water filling)

7.3.11 Transport (TRSP)

Text in LCD display	Description
Impulse switch mode	Activate system units depending on present crockery (in wash operation)? 0: NO 1: Impulse switching only for PAR and FRx (Clean water conservation unit) 2: Impulse switching without transport stop (impulse switching for all systems except transport) 3: Impulse switching with transport stop (impulse switching for all systems)
Imps. till trsp.stop	Effect only on transport controls (if impulse switch mode=3)
Imps. till KV start	Evaluate shift register (KV)
Impulses duration KV	After-run extension KV
Imps. till PW start	Evaluate shift register (PW)
Impulses duration PW	After-run extension PW
Imps.till WT7 start	Evaluate shift register (WT7)
Impulses duration WT7	After-run extension WT7
.....	.....
Imps. till WT1 start	Evaluate shift register (WT1)
Impulses duration WT1	After-run extension WT1
Imps. till PAR start	Evaluate shift register (PAR)
Impulses duration PAR	After-run extension PAR
Imps. till FR start	Setup shift register (FR)
Impulses duration FR	After-run extension FR
Imps. till FR2 start	Evaluate shift register
Impulses duration FR2	After-run extension FR2
Imps.till BD start	Evaluate shift register (BD)
Impulses duration BD	After-run extension BD
Conv on after delay	The conveyor is switched on again with a time delay after the conveyor switch is released.

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8 Error indication, Information and Instructions

8.1 Error indication, no wash process possible

Err. No.	Display	Note / Possible causes	Possible measures
		System	
1	External EEPROM	EEPROM not available, no data	Plug in EEPROM or re-define (download with M-Commander)
2	Internal EEPROM	Hardware defect; change CPU circuit board Download language set	Change CPU circuit board Download language set.
3	System error SW	Software system error or electromagnetic compatibility problems Defect or damp in the membrane key-pad	Test with a new membrane key-pad
4	EEPROM language	Hardware defect	Change input/output circuit board
5	I/O-board defective	RAM, ROM, PROG test defective;	Replacing I/O circuit boards in succession
8	Program-number not defined	Wash program (speed etc.) not defined	Allocate an available program to the key (see parameter P104 - P106)
		General information	
101	Emergency stop act.	Emergency stop switch has been activated	
		Tank	
201	Timeout on filling	Set level in tank not reached at right time (P307); Water supply from the mains inadequate; Inlet valve does not open (correctly) mechanical / electrical; Cable broken in wiring to the valve; Level sensor defective	Release the emergency stop
202	Refill error	Set level in tanks not reached at right time (P307); Water supply from the mains inadequate; Inlet valve does not open (correctly) mechanical / electrical; Cable broken in wiring to the valve; Level sensor defective	Float hanging, check tank circuit board position
		Conveyor system	
701	Conveyor overload	Blockage Motor protection switch triggered Overload detected Frequency converter	Remove blockage, (reverse conveyor if necessary). Measure voltage / power consumption. Adjust overload system. Check parameters.

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Err. No.	Display	Note / Possible causes	Possible measures
		CAN communication	
801	Communication with CAN-bus address 1	Communication cable not connected; CAN address switch wrongly set. No power supply to I/O circuit board; I/O circuit board defective.	Connect. Settings as in the circuit diagram Ensure power available Replace I/O circuit board Switch main switch off and back on
802	Communication with CAN-bus address 2	See above	
803	Communication with CAN-bus address 3	See above	
804	Communication with CAN-bus address 4	See above	
805	Communication with CAN-bus address 5	See above	
806	Communication with CAN-bus address 6	See above	
807	Communication with CAN-bus address 7	See above	
808			
809	Undefined bus address recognized	Undefined bus users recognized (CAN address switch wrongly set).	Check address switch; correct parameter set
900	No I/O type defined	Wrong parameterization (P310,311,..,323=0)	Correct parameter set
901	IO type on bus addr.1 incompatible	Wrong I/O type (P310) with CAN addr. 1 Faults through light sources with infrared component -> deactivate the infrared communication via P129 for testing	Check I/O type; Correct parameter set
902	IO type on bus addr.2 incompatible	Wrong I/O type (P311) with CAN addr. 2	Check I/O type; Correct parameter set
903	IO type on bus addr.3 incompatible	Wrong I/O type (P312) with CAN addr. 3	Check I/O type; Correct parameter set
904	IO type on bus addr.4 incompatible	Wrong I/O type (P313) with CAN addr. 4	Check I/O type; Correct parameter set
905	IO type on bus addr.5 incompatible	Wrong I/O type (P314) with CAN addr. 5	Check I/O type; Correct parameter set
906	IO type on bus addr.6 incompatible	Wrong I/O type (P315) with CAN addr. 6	Check I/O type; Correct parameter set
907	IO type on bus addr.7 incompatible	Wrong I/O type (P316) with CAN addr. 7	Check I/O type; Correct parameter set

8.2 Error indication, restricted wash process possible

Info No.	Display	Note / Possible causes	Possible measures
		System	
10	Water change completed	Only manual entry possible (Operation diary)	
11	Basic cleaning completed	Only manual entry possible (Operation diary)	
12	Repair OK	Only manual entry possible (Operation diary)	
13	Maintenance OK	Automatic entry on reset of maintenance counter (see parameter P101)	

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Info No.	Display	Note / Possible causes	Possible measures
14	Rinse agent changed	Only manual entry possible (Operation diary)	
15	Detergent changed	Only manual entry possible (Operation diary)	
		General information	
110	Maintenance needed	Maintenance is needed	After maintenance being carried out the maintenance counter must be reset on configuration level (parameter P101)
111	Door open	Close door Door switch (reed contact) incorrectly set or defective; cable broken, contact on door switch; Input to the I/O circuit board defective	
112	Password wrong	Entry code not available in internal table	Correct entry code
113	Setting parameters activated	The power supply must be interrupted to release the factory setting parameters (switch off main electrical power switch) P130, P220 or P327 activated	
114	EEPROM emerg.setting	Emergency strategy EEPROM problems active, i.e. the device can also be operated without an EEPROM in certain circumstances	Supply EEPROM with data via replacement parts service and put on CPU2
115	EEPROM was empty. Re-initialise	EEPROM was empty or incomplete -> Data was been copied from the internal EEPROM to the plug-in EEPROM Message is automatically deactivated on program (only devised as information, as the complete extent of the program is not available)	Supply EEPROM with data via replacement parts service and put on CPU2 Transfer parameter set by M-Commander again
117	High Limit Switch temp. exceeded	Safety temperature monitoring for heating element indicates alarm Lighting for heating defective.	Ascertaining the cause (heating circuit) and possible component replacement
118	Battery empty	If a voltage interruption occurs, the date and time are not defined	Replace battery
119	Err. real time clock	Error with real-time on CPU2 Date and time cannot be used	Replace CPU2
		Wash tanks	
210	Temperature in pre-wash too high	Actual temperature in the NDV too high (maximum exceeded)) Setpoint temperature too low; No water feed.	
211	Tank temperature not reached	Tank temperature not reached at the right time Tank heating element defective; Contactor defective; STP has triggered	
212	Tank temperature too high	Actual temperature in tank too high Contactor sticking; temperature sensor defective; Plug contact temperature sensor with high resistance	
213	Tank temperature sensor shortcut	Short circuit tank temperature sensor. Short circuit in the wiring; damp in the connector.	

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Info No.	Display	Note / Possible causes	Possible measures
214	Tank temperature sensor break	Cable to tank temperature sensor broken. Connector incorrectly connected; crimp connection inadequate	
215	Pre-wash temperature sensor shortcut	Short circuit pre-wash temperature sensor. Short circuit in the wiring; damp in the connector.	
216	Pre-wash temperature sensor break	Cable to pre-wash temperature sensor broken. Connector incorrectly connected; crimp connection inadequate	
217	Wash tank low temp	Wash tank low temperature heating element defective; Water transfer; Insufficient heating capacity; Temperature sensor wrongly installed	
218	Circ pump error	Signal "circulation pump error" pending Motor overload switch triggered	
219	Low temperature PKSP	Heating element defective; Insufficient heating capacity; Temperature sensor wrongly installed; Water transfer; Refilling; Suction too strong	
220	Excessive temperature PKSP	Actual temperature in tank too high; Contactor sticking; Relay on I/O circuit board sticking; Temperature sensor defective; Plug contact temperature sensor with high resistance	
221	Malfunction pump KV	Signal "circulation pump error of KV" pending Motor overload switch triggered	
222	Malfunction pump VA	Signal "circulation pump error of VA" pending Motor overload switch triggered	
223	Malfunction pump WT7	Signal "circulation pump error of WT7" pending Motor overload switch triggered	
224	Malfunction pump WT6	Signal "circulation pump error of WT6" pending Motor overload switch triggered	
225	Malfunction pump WT5	Signal "circulation pump error of WT5" pending Motor overload switch triggered	
226	Malfunction pump WT4	Signal "circulation pump error of WT4" pending Motor overload switch triggered	
227	Malfunction pump WT3	Signal "circulation pump error of WT3" pending Motor overload switch triggered	
228	Malfunction pump WT2	Signal "circulation pump error of WT2" pending Motor overload switch triggered	
229	Malfunction pump WT1	Signal "circulation pump error of WT1" pending Motor overload switch triggered	

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FR1/2			
310	Temperature FR too high	Actual temperature in FR too high (maximum exceeded) Contactor sticking; temperature sensor defective; Plug contact temperature sensor with high resistance	
311	Temperature FR too low	Required temperature permanently too low Heating element defective; Water transfer; Insufficient heating capacity	
312	FR sensor shortcut	Short circuit FR temperature sensor Short circuit in the wiring; Damp in the connector.	
313	FR sensor break	Cable to FR temperature sensor broken. Connector incorrectly connected; Crimp connection inadequate	
314	FR sensor shortcut	Short circuit FR2 temperature sensor Short circuit in the wiring; Damp in the connector.	
315	FR2 sensor break	Cable to FR2 temperature sensor broken. Connector incorrectly connected; Crimp connection inadequate	
316	FR: flow too low	Volume flow too low (no water) Mains separation pump; Filling valve	
317	FR2: flow too low	Volume flow too low (no water) Mains separation pump; filling valve	
318	Temperature FR2 too high	Actual temperature in FR2 too high (maximum exceeded) Contactor sticking; temperature sensor defective; Plug contact temperature sensor with high resistance	
319	Temperature FR12 too low	Required temperature permanently too low Heating element defective; Water transfer; Insufficient heating capacity	
320	Malfunction pump PKSP	Signal "circulation pump error of PKSP " pending Motor overload switch triggered	
321	Malfunction pump KSP1	Signal "circulation pump error of KSP1" pending Motor overload switch triggered	
322	Malfunction pump KSP2	Signal "circulation pump error of KSP2" pending Motor overload switch triggered	
Heat pump			
510	Overload compressor	Motor overload switch compressor	
511	Heat pump exhaust air fan	Motor overload switch exhaust air fan	
512	Heat pump tank water circulation pump	Motor overload switch Tank water circulation pump	
513	Heat pump low pressure	Low pressure switch has caused disconnection	
514	Heat pump overpressure	Overpressure switch has caused disconnection	

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515	Thermal contact compressor	Thermal contact on compressor has triggered	Find cause for raised temperature Malfunction must also be acknowledged in addition
		Drying	
610	Low temperature drying zone	Tolerance range exceeded	
611	Drying temp. sensor short cut	Short circuit drying temperature sensor. Short circuit in the wiring; damp in the connector.	
612	Drying temp. sensor break	Cable to drying temperature sensor broken. Connector incorrectly connected; crimp connection inadequate	
613	Drying fan error	Motor overload switch fan triggered	
614	Excessive temperature Drying	Permissible maximum exceeded	
615	Suction fan malfunction	Suction fan power switch triggered	
		Conveyor system	
710	End switch activated	Crockery at the conveyor end	Remove crockery
711	Error impulse transmitter transport	If the impulse switch mode is PARAMETERISE d and the transport activated, a cycle impulse must be received for each time unit; in the event of an error, the units are switched to continuous running Reed switch defective; Magnet on rotary disk incorrectly positioned	
713	Malfunction rinse agent	Rinse agent empty?	
714	Malfunction detergent	Detergent empty?	
715	Malfunction gas module	See gas module description	
716	External water treatm. malfunction	See description of the water treatment equipment	
717	External conveyor	see circuit diagram description	
		CAN communication	
815	KMM connection interrupted	CAN connection interrupted; KMM (communication module) does not respond	

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8.3 Other possible malfunctions

Situation	Result / Reaction	Possible causes	Possible measures
Nothing works, everything dark, buzzer off	LED on the circuit board not ON	12V power supply (power pack) not available; overload due to short circuit in the low tension area	Check function of power-pack
Nothing works, no text on LCD, background illumination on, buzzer on	LED on the circuit board not ON	EPROM missing or wrongly connected	Check EPROM and correct if necessary.
LCD dark and dots missing; otherwise normal function.		LCD defective	Change CPU
Infra-red communication not possible.		Membrane key-pad dirty; Parameterisation error	Test communication by RS232. Change EEPROM if necessary and change CPU.
CPU is reset during course of program.	Display dark for a short time; the controls are then initialised.	Overload on the switching mode power supply, short circuit in consumer; power failure to the building	Identify cause by disconnecting individual consumers.
CPU continually initialised.	Not possible to start the program	IrDa interface overloaded	Interrupt communication
All LEDs activated (flashing).	Not possible to operate the machine	Short circuit caused by damp in the membrane key-pad or in the connecting plug/jack	Disconnect membrane key-pad connecting plug/jack and test program start by external button; change membrane key-pad. Test the button; change membrane key-pad
Membrane key-pad not working correctly.	Allocation of the program selected and the reaction do not coincide	The membrane key-pad is not properly plugged into the CPU	Connect the connector correctly.
No reaction to any key on the membrane key-pad	Machine cannot be used	The membrane key-pad is not connected to the CPU	Check the plug connector

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9 Corrosion signs

The cleaning and disinfection machine is made from high-quality stainless steel. Nevertheless, under special circumstances, corrosion may occur. The following points must be observed:

- Ensure that no steel particles enter the appliance via the local fresh water supply pipes. The same applies to the entry of other metal particles such as copper filings or turnings.
- Corrosion may occur if unsuitable detergents are used.

10 Final decommissioning / Disposal of the appliance

Completely empty the hydraulic system and the dosing systems in the appliance.

Use the remains of the dosing agents elsewhere or dispose of them properly.

The appliance must be completely disconnected from the power supply by placing the main switch supplying power from the building in the OFF position or removing the main fuse in the building.

To avoid any accidents, shutdown machine must be made unusable **immediately,** e.g. by cutting the cable loom.

When you dispose of the installation (dismantling/scrapping), the parts and their corresponding materials should preferably be re-used.

Here is a list of the materials that most frequently occur when dismantling:

- Stainless steel
- Brass
- Electrical and electronic parts
- PP and other plastics

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Gruppe
Group
Groupe

Das Programm auf einen Blick	Our product range	Notre gamme de production
1 **Spülautomaten mit stationärem Waschverfahren** Geschirr- und Gläserspülautomaten; Topf- und Behälterspülautomaten; Salat- und Gemüsewaschautomaten	**Automatic dishwashing machines** with fixed washing system	**Lave-vaisselle à procéder de lavage stationnaire** Automates de lavage
2 **Spülautomaten mit Durchlaufsystem** Geschirrspülautomaten mit Bandtransport-, Korbtransport- oder Umlaufsystem	**Belt conveyor and rack transport machines** for continuous throughput operations	**Lave-vaisselle automatiques à passage continu** Lave-vaisselle automatiques à conveyeur et à transport de paniers
3 **Spezialspülanlagen** Vollautomatische Spülanlagen für Geschirr, Tabletts und Besteck; Flight-Catering-Anlagen; Industriespülautomaten; Trolley-, Behälter- und Transportwagenspülanlagen	**Special purpose warewashing solutions** such as semi and fully automatic systems, designed for the catering industry in general	**Lave-vaisselle spéciaux** Installations de lavage entièrement automatiques et semi-automatiques, lave-vaisselle industriels
4 **Förderanlagen** Tablett- und Geschirrtransportbänder, Geschirrsortier- und Stapeleinrichtungen	**Conveying systems** for vertical and horizontal transport of trays and dishes	**Installations de transport** pour le transport vertical et horizontal de plateaux
5 **Speisereste-Behandlungsanlagen** Maschinen und Anlagen zur Aufbereitung von Speiseresten für eine umweltgerechte Entsorgung	**Food waste treatment systems** Water conditioning appliances	**Installations de traitement de déchets alimentaires** ainsi que des installations de traitement d'eau
6 **Großkücheneinrichtungen** Geräte und Mobiliar für Relais- und Stationsküchen; Transportwagen; Tablett- und Tellerstapler; Tische, Schränke und Regale aus Edelstahl; diverse Organisationsmittel	**Central wash-up equipment** Tables, cabinets, tray and plate stackers	**Installations pour grandes cuisines** Tables, empileurs de plateaux et d'assiettes
7 **Sanitäreinrichtungen für Krankenhäuser und Heime** Reinigungs- und Desinfektionsautomaten für Steckbecken und andere Pflegegeschirre; Pflegekombinationen; Komplettausstattung für Unreine Arbeitsräume	**Sanitary appliances for healthcare establishments** Automatic cleaning and disinfection appliances for bedpans and other care utensils	**Installations sanitaires pour hôpitaux et maisons de soins** Automates de nettoyage et de désinfection, combinés de soins

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Operating instructions

Service instructions

Technical datas

Commissioning

Guide for trouble-shooting

Spare parts list

Service adresses

Miscalleneous

Technical datas

Operating instructions

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Guide for trouble-shooting

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Miscalleneous

1.1 Wash result poor

1.2 Rinse result poor

1.3 Residues from detergent

1.4 Residues from rinsing agent

1.5 Starch deposits

1.6 Lime deposits

1.7 Salt deposits

1.8 Lather formation

Defective components!

Cause	Remedy
Wash arms missing	Insert wash arms
Wash pump direction of rotation	Check direction of rotation, change power connection poles if necessary
Detergent dosage device defective	Check function, change dosage hose or device if necessary

Solid deposits on washed items!

Cause	Remedy
Conveyor speed too high	Select lower conveyor speed
Basket unsuitable	Use suitable inserts
Incorrect sorting of dishes in basket, Spray marks	See operating instructions
Detergent unsuitable	Detergent must be adjusted to the water quality, the items to be washed and the kind of soiling ask chemicals supplier if necessary
Detergent dosage too small	See sheet 1.3.1 adjust detergent dosage see operating instructions
Tank temperature too low	Check tank heating, change if necessary adjust tank temperature

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Dosage:		
hard-ness area	water hardness °d	RF 80 g per liter of water
1	up to 7°d (soft)	1-2
2	7°-14°d (medium)	3-4
3	14°-21°d (hard)	5-6
4	more than 21°d (very	more than 6

1 ml = ca. 1,30 g

Defective components!

Cause	Remedy
Rinsing water quantity too low	Clean dirt trap
Rinsing arms missing / incorrectly installed	Insert / install rinsing arms correctly
Rinsing nozzles missing	Insert nozzles
Rinsing nozzles set at wrong angle	Set rinsing nozzles at correct angle
Rinsing nozzles blocked	Clean nozzles
Boost pump defective	Check pump, change if necessary Check power supply, repair if necessary
Rinsing dosage device defective	Check function, change dosage hose or device if necessary

Loose deposits on washed items!

Cause	Remedy
Rinsing water quantity too low	Increase rinsing water quantity
Basket unsuitable	Use suitable inserts
Incorrect sorting of dishes in basket, spray marks	See operating instructions
Tank water too heavily polluted	Filter system missing or damaged Pre-clearing insufficient

Residues / marks on the dish-ware, unsatisfactory result after drying

Unsuitable rinse agent	Rinse agent must be suitable for the water quality and the dish-ware/cutlery. Ask your chemical supplier for advice
Rinse agent quantity too low	Adjust the rinse agent dosing. See Operating Instructions
Rinse temperature too low	Check the boiler heating element. Replace if necessary. Set the boiler temperature. See the Operating Instructions

Cause	Remedy
Detergent concentration too high	See sheet 1.3.1 Adjust detergent dosage See operating instructions Detergent must be adjusted to the water quality, the items to be washed and the kind of soiling ask chemicals supplier if necessary Detergent detection with pH paper See sheet 1.3.2 Detergent detection with fluid pH See sheet 1.3.3
Rinsing water quantity too low	Increase rinsing time
Rinsing nozzles blocked up	Clean nozzles
Boost pump defective	Check pump, change if necessary Check power supply, repair if necessary
Boiler, pipes, nozzles clogged	Decalcifier See sheet 1.6.1 Lime detection See sheet 1.6.2
Basket unsuitable	Use suitable inserts
Incorrect sorting of dishes in basket Spray marks	See operating instructions
Low temperature in tank detergent saponificates and does not dissolve completely	Check tank heating, change if necessary Adjust tank temperature See operating instructions

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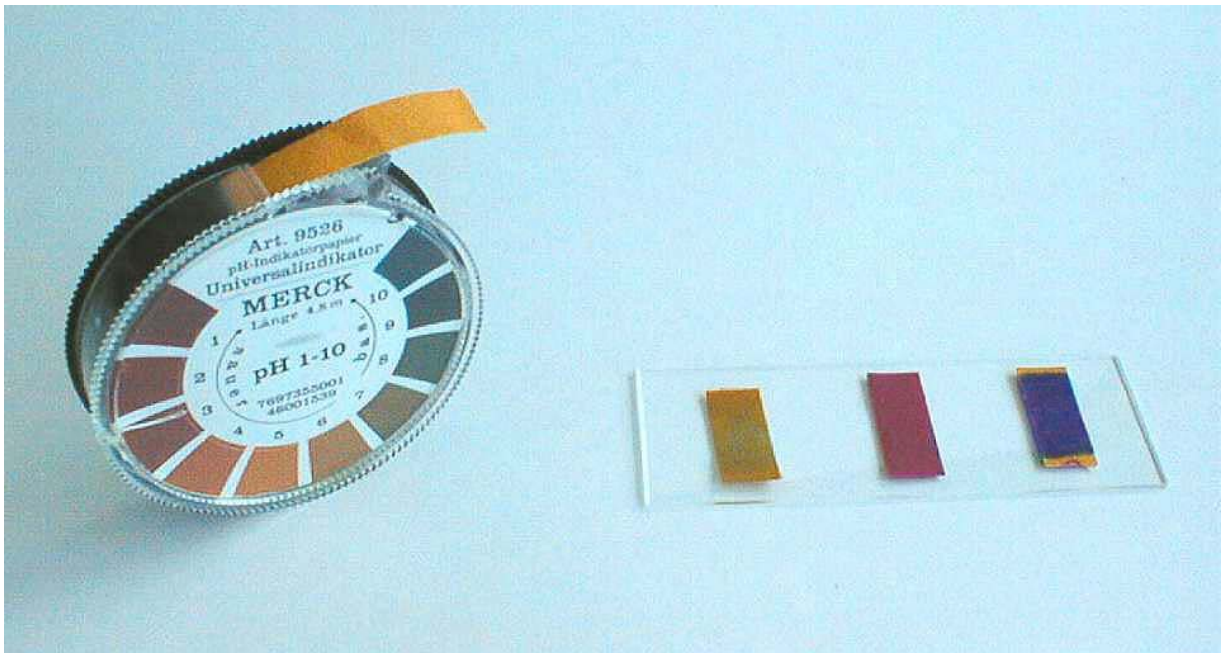
Dosage:		
hard-ness area	water hardness °d	RF 80 g per liter of water
1	up to 7°d (soft)	1-2
2	7°-14°d (medium)	3-4
3	14°-21°d (hard)	5-6
4	more than 21°d (very	more than 6

1 ml = ca. 1,30 g

Detergent detection
using pH paper

1.3.2



Carrying out:

Tear off short strips of pH indicator paper

- dip the pH indicator paper into the remaining fluid on the washed items
- analysis based on the provided color scale
  pH value: 1 - <7 = acid; 7 = neutral; >7 - 14 = alkaline

Note:

- detergent disperses under running water
- with detergent containing chlorine = chlorine odor

Carrying out:

- Put a few drops of the indicator solution 3 (phenolphthalein) on the surface to be proofed
- If it clearly turns red, soapy water residue is present (pH > 7)

Important:

Softened water occasionally leads to a slight reddening.
This does not mean that soapy water residue is present.

Note:

- Detergent dissolves under flowing water
- In case of detergent containing chlorine = chlorine odor

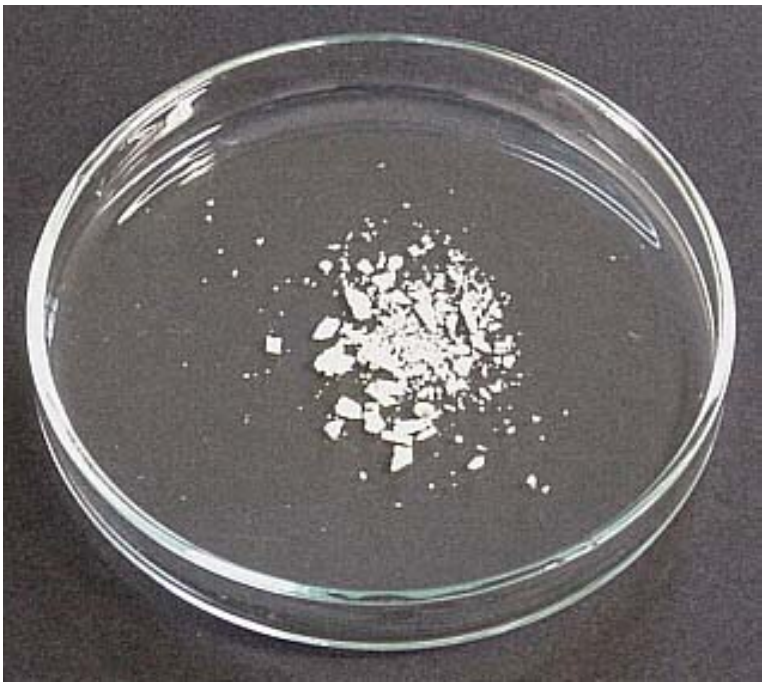
Decalcifier

Dosage:

30-50 g/l water
at 50-60 °C
reaction time = 20 min
several program cycles

After decalcifying:

re-fill the dishwasher
run the program
drain the water
rinse thoroughly



furring

acid moistened:
lather formation

Note:

- Lime does not dissolve under running water
- Removal with decalcifier

Residues from rinsing agent

Cause	Remedy
Rinsing agent concentration too high (cloudy marks, smears, surface sticky and greasy, formation of bubbles)	See sheet 1.4.1 Adjust rinsing agent dosage Rinsing agent must be adjusted to the water quality and the items to be washed Ask chemicals supplier if necessary Rinsing agent proofing using pH paper See sheet 1.4.2

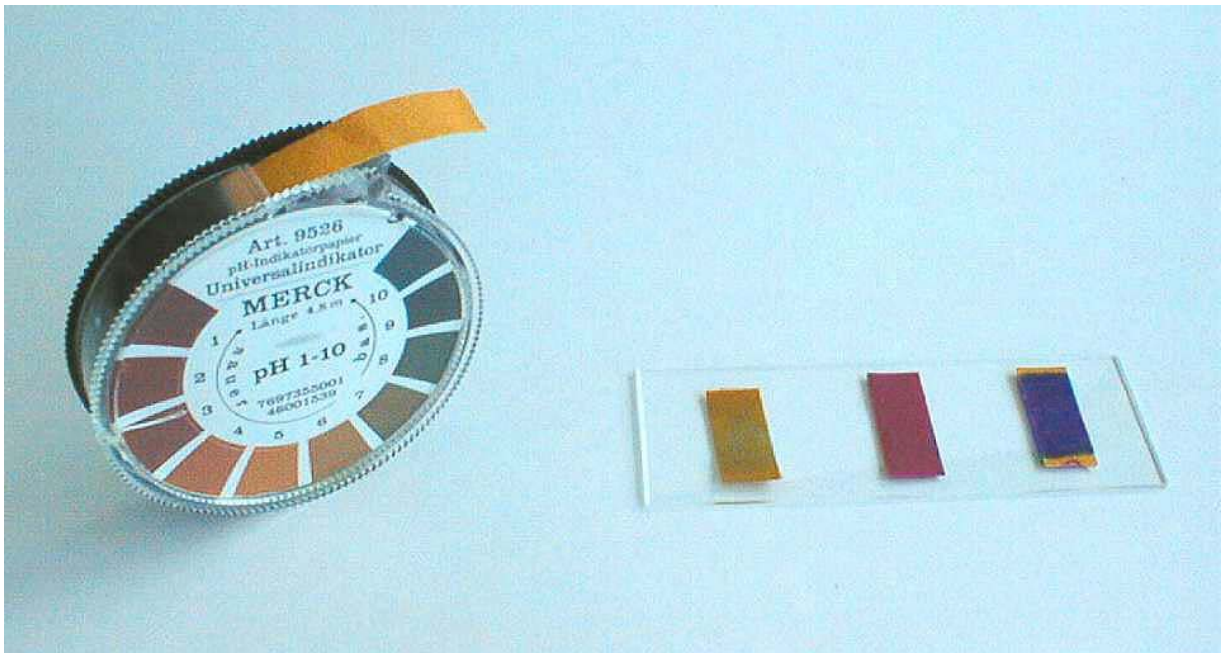
Dosage:

0,2-0,7 g/l corresponding to water quality and items to be washed
1 ml = 1 g approx.

Rinsing agent dosage rule:

optimal dosage	- water film
low dosage	- formation of drops
over dosage	- formation of stripes

Rinsing agent detection
using pH paper



Carrying out:

tear of short strips of pH indicating paper

- dip the pH indicating paper into the remaining fluid on the washed items
- analysis based on the provided color scale
  pH value 1 - <7 = acid; 7 = neutral; >7 – 14 = alkaline

Advice:

- rinsing agent disperses under running water
- sticky residue often present

Cause	Remedy
Conveyor speed too high	Select lower conveyor speed
Incorrect sorting of dishes in basket Spray marks	See operating instructions
Detergent unsuitable	Detergent must be suitable for starch removal Ask chemicals supplier, if necessary
Detergent concentration too low	See sheet 1.3.1 Adjust detergent dosage See operating instructions
Tank temperature too low	Check tank heating, change if necessary Adjust tank temperature See operating instructions

Hint:

Starch detection with iodine, see sheet 1.5.1

meikolon RF 80

Dosage:		
hard-ness area	water hardness °d	RF 80 g per liter of water
1	up to 7°d (soft)	1-2
2	7°-14°d (medium)	3-4
3	14°-21°d (hard)	5-6
4	more than 21°d (very	more than 6

1 ml = ca. 1,30 g

Carrying out:

- put drops of indicator solution 2 (iodine) on the surface to be proofed
- in case of black-blue coloration, starch residues detected

Advice:

- cannot be removed within a short time under running water
- removal with dipping detergent/starch remover

Cause	Remedy
Water hardness too high	Water treatment is necessary over 3 °dH . The following measures can be taken depending on the water quality, the items to be washed and the operator's requirements: 1. Fit a water softener into the water supply or into the washer (not possible for all machines). 2. Complete reverse osmosis equipment for the production of chemically pure water
Water hardness too high in spite of added water treatment equipment	To 1.: Check operation. Check water inlet pipe, and if necessary clean/change filter and dosage regulator. Refill salt, initiate regeneration process. To 2.: Check reverse osmosis equipment
Detergent concentration too low	See sheet 1.3.1 Adjust detergent dosage See operating instructions
Detergent not suitable for the hardness level	Detergent must be suitable for the hardness level Ask chemicals supplier, if necessary

Hint:

Decalcifier, see sheet 1.6.1
Lime detection, see sheet 1.6.2

meikolon RF 80

Dosage:		
hard-ness area	water hardness °d	RF 80 g per liter of water
1	up to 7°d (soft)	1-2
2	7°-14°d (medium)	3-4
3	14°-21°d (hard)	5-6
4	more than 21°d (very	more than 6

1 ml = ca. 1,30 g

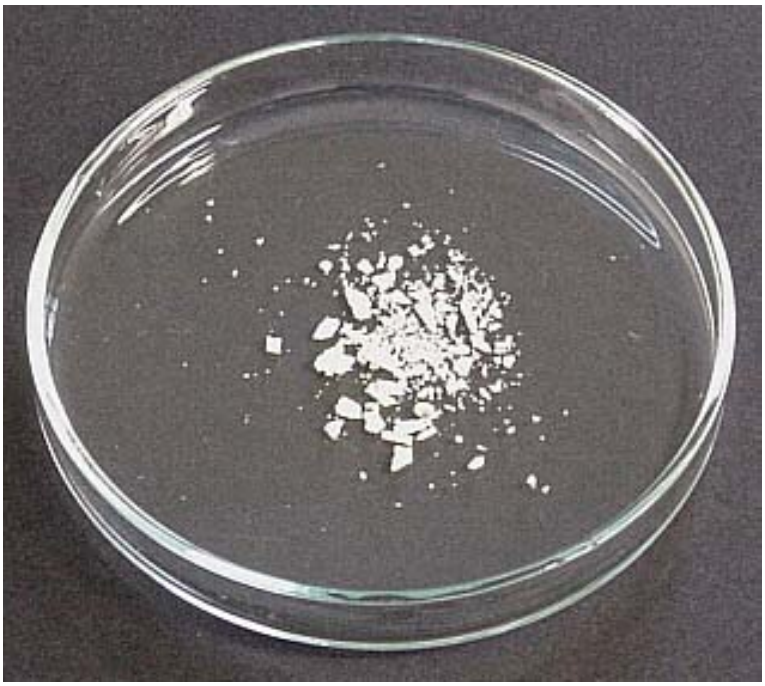
Decalcifier

Dosage:

30-50 g/l water
at 50-60 °C
reaction time = 20 min
several program cycles

After decalcifying:

re-fill the dishwasher
run the program
drain the water
rinse thoroughly



furring

acid moistened:
lather formation

Note:

- Lime does not dissolve under running water
- Removal with decalcifier

Cause	Remedy
Salt content of water too high	Water treatment is necessary if salt content is excessive. The following measures can be taken depending on the water quality, the items to be washed and the operator's requirements: 1. Partial softening to remove carbonate hardness salts 2. Complete softening or reverse osmosis equipment for the production of chemically pure water
Salt content too high in spite of added partial/complete demineralisation equipment	Check if cartridge is exhausted. If necessary change for a regenerated cartridge
Salt content too high after regeneration of water softener	Check operation of water softener. Check water inlet pipe, and if necessary clean/change filer and dosage regulator

Hint:

For salt content as measured by electrical conductivity, see sheet 1.7.1

conductivity measuring equipment

Conductivity – maximum values (untreated water) for an acceptable result after dishwashing:

dishes	400 µS/cm
glasses	100 µS/cm
cutlery	80 µS/cm

Note:

- Salts dissolve under running water

Cause	Remedy
Tank temperature too low	Check tank heating, change if necessary Adjust tank temperature See service instructions
Rinsing temperature too low	Check boiler heating, change if necessary Adjust boiler temperature See operating instructions Standard settings: Dishes = 80–83 °C Glasses = 65 °C approx.
Cold water rinsing with rinsing agent	Adjust boiler temperature as mentioned above
Hand washing agent chemical agents, such as gelatine	Even traces of hand washing agents and a variety of chemical agents create lather formation. Avoid such agents on dishes etc placed in the machine
Condensed milk	Ensure there are no more than small quantities on dishes etc placed in the machine

2.1 Dishwasher cannot be switched on

2.2 Dishwasher does not fill

2.3 Dishwasher overfilling

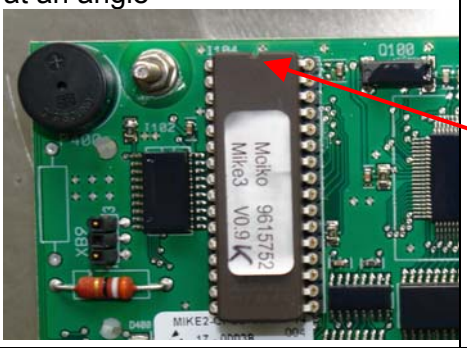
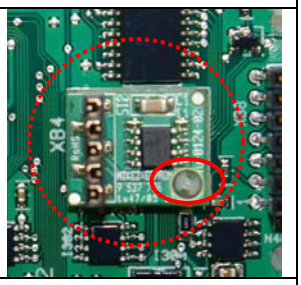
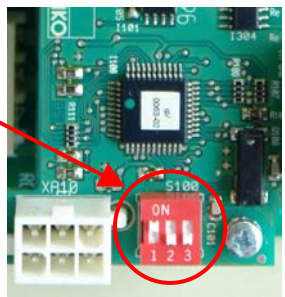
2.4 Dishwasher does not heat up

2.5 Wash pump problems

2.6 Fresh water rinsing does not rinse

2.7 No dosage

Dishwasher cannot be switched on

Cause	Remedy
No mains supply	Connect to mains
Control fuse set off	Switch on control fuse
Data and power supply lines loose or defective (operating LED's do not light up)	Check plug connection, change if necessary
Membrane key-pad does not function or defective	Check plugs/jacks Change membrane key-pad
Control defective	Check power supply (operating LED must light up), change if necessary Check input/output circuit board (operating LED must light up), change if necessary, Check CPU (operating LED must light up), change if necessary
Eprom missing, loose or inserted at an angle 	Check Eprom for correct insertion (notch pointing outwards - illustration)
Eprom defective	Change Eprom
EEprom missing, loose or inserted at an angle	Check EEprom for correct insertion 
Eeprom defective	Change EEprom
Input/output circuit board wrongly coded	Code S100 DIP switch as in the circuit diagram 

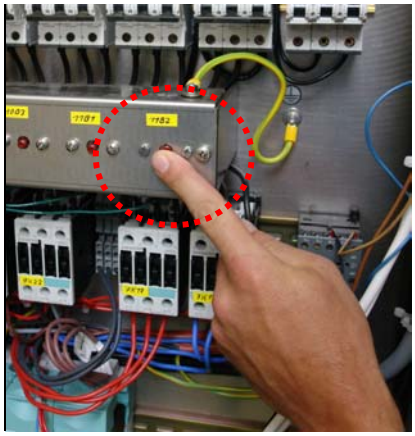
Tank not filling!

Cause	Remedy
Shutoff valve closed	Open shutoff valve
Water inlet dirt filter dirty	Clean dirt filter
Water inlet valve does not open	Check mains supply/plug connection
Tank level data collection defective	Check level control; check that float is clean and moves easily. Replace defective parts if necessary

Tank overfilling!

Cause	Remedy
Tank level data collection defective	Check level control; check that float is clean and moves easily. Replace defective parts if necessary
Water supply valve does not close	Check activation and replace if necessary. Check mechanical function of water inlet valve.

Tank water does not heat up!

Cause	Remedy
Tank heating element defective	Check electrical circuits of tank heating element, replace if necessary
Tank heating contactor defective	Check electrical circuits of tank heating contactor, replace if necessary
Safety temperature limiter (STB) for tank heating has triggered	Establish the cause: • Float switch defective, sticking or wrongly positioned • Level circuit board defective • Contactor sticking • STB damaged (capillary tube defective) Acknowledge the STB after rectifying the fault: 
Tank temperature sensor defective	Check electrical circuits of tank temperature sensor (1000 Ω at 25°C) replace if necessary
Incorrect temperature measurement	Tank temperature sensor loose or not properly inserted
Target temperature incorrectly set	Check electrical circuits of tank temperature sensor (1000 Ω at 25°C) replace if necessary
Motor safety switch / Automatic circuit-breaker activated or defective	Check setting, adjust if necessary, and switch on again (see electrical diagram) or replace
Minimum tank level not reached	See chapter "dishwasher does not fill “

Tank water does not heat up!

Cause	Remedy
Tank heating element defective	Check electrical circuits of tank heating element, replace if necessary
Tank heating contactor defective	Check electrical circuits of tank heating contactor, replace if necessary
High limit switch for tank heating has triggered	Establish the cause: • Float switch defective, sticking or wrongly positioned • Level circuit board defective • Contactor sticking • High limit switch damaged (capillary tube defective)
Tank temperature sensor defective	Check electrical circuits of tank temperature sensor (1000 Ω at 25°C) replace if necessary
Incorrect temperature measurement	Tank temperature sensor loose or not properly inserted
Target temperature incorrectly set	Check electrical circuits of tank temperature sensor (1000 Ω at 25°C) replace if necessary
Motor safety switch / Automatic circuit-breaker activated or defective	Check setting, adjust if necessary, and switch on again (see electrical diagram) or replace
Minimum tank level not reached	See chapter "dishwasher does not fill “

Wash pump sucking in air!

Cause	Remedy
Power switch has tripped	Establish the cause: • Check the phases • Check motor power consumption • Measure resistance of the windings • Check connections
Motor contactor does not operate	Measure motor contactor, change if necessary
Motor contactor not activated	Check relay output for motor contactor in the I/O circuit board
No relay output on the I/O circuit board	Check relay output for motor contactor in the I/O circuit board
Tank water level too low	Clean tank cover sieve.
Tank level regulation defective	Check water levels.
Cover sieve blocked up	Clean cover sieve
Excessive foam production	Do not use a foaming detergent for dishwashing by hand for pre-cleaning close to the dishwasher. Check tank temperature (too low?)

Fresh water rinsing does not rinse

Cause	Remedy
Rinsing nozzles blocked	Remove and clean rinsing nozzles, clean / remove lime deposits from boiler, if necessary
Booster pump for the fresh water air gap not running	Power switch has tripped Motor contactor does not operate Motor contactor not activated No relay output on the I/O circuit board (See section “Wash Pump Malfunctions”)
No water supply from the building	Open the stop-cock Clean the dirt filter Check fresh water inlet pipe; if necessary re-lay it so it is free from kinks Check power supply / plugs (jacks).

No rinsing dosage!

Cause	Remedy
Rinsing dosage system not watertight	Check that hose connections are watertight
Rinsing dosage device not watertight	Replace dosing device hose, clean leak pan
Dosage point blocked	Clean injection point
Suction sieve soiled	Clean suction sieve
Hose kinked	Position hose without kinks
Other causes / malfunctions	See Operating Instructions / Service Instructions. Call chemical supplier

No detergent dosage!

Cause	Remedy
Detergent dosage system not watertight	Check that hose connections are watertight
Detergent dosage device not watertight	Replace dosing device hose, clean leak pan
Dosage point blocked	Clean injection point
Suction sieve soiled	Clean suction sieve
Hose kinked	Position hose without kinks
Other causes / malfunctions	See Operating Instructions / Service Instructions. Call chemical supplier

Operating instructions

Service instructions

Technical datas

Commissioning

Guide for trouble-shooting

Spare parts list

Service adresses

Miscalleneous

Spare parts list

KORBTRANSPORTAUTOMAT
AUTOMATIC BASKET TRANSPORT MACHINES
LAVE-VAISSELLE AUTOMATIQUES A TRANSPORT DE PANIERS

Gruppe 2

K-TRONIC

Typenreihe	K 200 / K 400
Serie	K 200 / K 400
Série	K 200 / K 400

Ersatzteilliste
Spare parts list
Liste de pièces détachées

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ERSATZTEILLISTE

SPARE PARTS LIST

LISTE DE PIECES DETACHEES

Typenreihe	**K 200 / K 400**	gültig ab	06 / 2001
Type	**K 200 / K 400**	valid from	06 / 2001
Série	**K 200 / K 400**	valable à partir de	06 / 2001

Bei Ersatzteilbestellung sind folgende Angaben erforderlich:
Following information should be stated in your spare parts orders:
Veuillez indiquer s.v.p. les informations suivantes dans vos commandes.

Kunde/Betreff:
Customer/Ref.: _____
Client/Objet:

MEIKO-Auftragsnummer
MEIKO-Serial No.: _____
No. de série MEIKO:

Maschinentype:
Type of machine:: _____
Type de la machine:

Positions-Nr.:
Item No.: _____
Repère No.:

Benennung:
Denomination: _____
Dénomination:

Ersatzteilnummer:
Part No.: _____
Pièce No.:

Bei einigen Teilen sind zusätzliche Angaben nötig. Diese Teile sind in der Ersatzteilliste mit einem entsprechenden Hinweis versehen.

Some parts require more detailed information, these parts are especially stated in our list.

Il faut donner des informations supplementaires pour quelques pièces.
Nous les avons munies de remarques spéciales.

Kennzeichnung der Ersatzteile:
* / V Diese Teile empfehlen wir auf Lager zu legen! V = Verschleißteil!

Special marks of spares:
* / V We recommend to store these parts! V = wear and tare part!

Marquage speciales des pieces:
* / V Nous recommandons de prendre ces pièces en stock! V = pièce d'usure!

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SPARE PARTS LIST

LISTE DE PIECES DETACHEES

Auf nachfolgenden Ersatzteilblättern finden Sie einige Bauteile
(Pumpen, Spulen, Motoren, Schalter und Heizungen),
die nicht mit Ident Nummern angezogen sind.
Die dazugehörigen Id. Nummern finden Sie in der Stückliste des Elektroschaltplanes.

Aufschlüsselung des Anhanges zur Ident Nr:
01 = Arbeitsrichtung Links-Rechts
02 = Arbeitsrichtung Rechts-Links
03 = Ausführung Links
04 = Ausführung Rechts
L-R = Arbeitsrichtung Links-Rechts
R-L = Arbeitsrichtung Rechts-Links

On the enclosed spare parts sheets you can find some construction parts
(pumps, coils, motors, switches and heatings)
which do not have an identification number.
The corresponding ident numbers can be found in the parts list of the wiring diagram

Details of the enclosure:
01 = working direction left-right
02 = working direction right-left
03 = execution left
04 = execution right
L-R = working direction left-right
R-L = working direction right-left

Sur les fiches des pièces détachées en annexe vous trouverez quelques pièces de construction
(pompes, bobines, moteurs, interrupteurs, chauffages)
sans numéro d'identification.
Vous trouverez les numéros correspondants dans la liste de pièces du schéma de connexions.

Détails de l'annexe du numéro d'identification:
01 = sens de travail gauche-droite
02 = sens de travail droite-gauche
03 = exécution gauche
04 = exécution droite
L-R = sens de travail gauche-droite
R-L = sens de travail droite-gauche

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ERSATZTEILLISTE

SPARE PARTS LIST

LISTE DE PIECES DETACHEES

INHALTSVERZEICHNIS	CONTENTS	SOMMAIRE	SEITE PAGE
E 250 (EINLAUF 250MM)	E 250 (FEEDING TUNNEL 250MM)	E 250 (TUNNEL D' ENTREE 250MM)	**10**
KV 600 (KLEINE VORABRÄUMUNG 600MM)	KV 600 (COMPACT PRE-WASH ZONE 600MM)	KV 600 (ZONE DE PRELAVAGE COMPACTE 600MM)	**11**
CSS 750 (CHEMIESPARSYSTEMZONE 750MM)	CSS 750 (CSS ZONE 750MM)	CSS 750 (ZONE CSS 750MM)	**12**
V 750 (VORABRÄUMUNG 750MM)	V 750 (PRE-WASH ZONE 750MM)	V750 (ZONE DE PRELAVAGE 750MM)	**13**
VA 800 (VORABRÄUMUNG 800MM)	VA 800 (PRE-WASH ZONE 800MM)	VA 800 (ZONE DE PRELAVAGE 800MM)	**14**
VA 1200 (VORABRÄUMUNG 1200MM)	VA 1200 (PRE-WASH ZONE 1200MM)	VA 1200 (ZONE DE PRELAVAGE 1200MM)	**15**
HWZ I 800 (HAUPTWASCHZONE I 800MM)	HWZ I 800 (WASH ZONE I 800MM)	HWZ I 800 (ZONE DE LAVAGE I 800MM)	**16**
HWZ II 800 (HAUPTWASCHZONE II 800MM)	HWZ II 800 (WASH ZONE II 800MM)	HWZ II 800 (ZONE DE LAVAGE II 800MM)	**17**
HWZ II-P 1200 (HAUPTWASCHZONE II MIT PUMPENKLARSPÜLUNG 1200MM)	HWZ II-P 1200 (WASH ZONE II WITH PUMP RINSE 1200MM)	HWZ II-P 1200 (ZONE DE LAVAGE II AVEC RINCAGE A POMPE 1200MM)	**18**
F 500 (FRISCHWASSER-KLARSPÜLZONE 500MM)	F 500 (FRESH WATER FINAL RINSE ZONE 500MM)	F 500 (ZONE DE RINCAGE FINAL 500MM)	**19**
F + DEMI 500 (FRISCHWASSER-KLARSPÜLZONE MIT DEMIKLARSPÜLUNG 500MM)	F + DEMI 500 (FRESH WATER FINAL RINSE ZONE WITH DEMI. RINSING 500MM)	F + DEMI 500 (ZONE DE RINCAGE FINAL AVEC RINCAGE EAU DEMI 500MM)	**20**
F + PI 500 (FRISCHWASSER-KLARSPÜLZONE MIT INTEGRIERTER PUMPENKLARSPÜLUNG 500MM)	F + PI 500 (FRESH WATER FINAL RINSE ZONE WITH INTEGRATED PUMP RINSE 500MM)	F + PI 500 (ZONE DE RINCAGE FINAL AVEC RINCAGE A POMPE INTEGRE 500MM	**21**
SPRITZSCHUTZTUNNEL	FEEDING TUNNEL	SAS DE ENTREE	**22**
TROCKNUNG	DRYING	SECHAGE	**23**

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ERSATZTEILLISTE

SPARE PARTS LIST

LISTE DE PIECES DETACHEES

	INHALTSVERZEICHNIS	CONTENTS	SOMMAIRE	SEITE PAGE
1.0	**KORBTRANSPORT**	**BASKET TRANSPORT**	**TRANSPORT DE CASIERS**	**24**
1.1	KORBTRANSPORT	BASKET TRANSPORT	TRANSPORT DE CASIERS	**26**
2.0	**VORHANG**	**CURTAIN**	**RIDEAU**	
2.1	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480	**28**
2.2	VORHANG 650X400	CURTAIN 650X400	RIDEAU 650X400	**29**
2.3	VORHANG 610X480	CURTAIN 610X480	RIDEAU 610X480	**30**
2.4	VORHANG TROCKNUNG	CURTAIN DRYING	RIDEAU SECHAGE	**31**
2.4.2	VORHANG TROCKNUNG	CURTAIN DRYING	RIDEAU SECHAGE	**32**
2.5	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480	**33**
2.6	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480	**34**
3.0	**WASCHSYSTEM**	**WASH SYSTEM**	**SYSTEME DE LAVAGE**	
3.1	WASCHSYSTEM-KV	WASH SYSTEM-KV	SYSTEME DE LAVAGE-KV	**35**
3.2	WASCHSYSTEM-CSS 750 / V750	WASH SYSTEM-CSS 750 / V750	SYSTEME DE LAVAGE-CSS	**37**
3.2.1	WASCHSYSTEM-CSS TOP	WASH SYSTEM-CSS TOP	SYSTEME DE LAVAGE-CSS TOP	**38**
3.4.1	WASCHSYSTEM-VA/HWZ	WASH SYSTEM- VA/HWZ	SYSTEME DE LAVAGE- VA/HWZ	**40**
3.4.5	WASCHSYSTEM-VA/HWZ	WASH SYSTEM- VA/HWZ	SYSTEME DE LAVAGE- VA/HWZ	**42**
3.5	PUMPENKLARSPÜLUNG	PUMP FINAL RINSE	RINCAGE FINAL A POMPE	**44**
3.6.1	FRISCHWASSERKLARSPÜLUNG	FRESH WATER FINAL RINSE	RINCAGE FINAL A L'EAU CLAIRE	**46**
3.7	DEMI-KLARSPÜLUNG	FINAL RINSE-DEMI	RINCAGE FINAL-DEMI	**48**
3.8	KLARSPÜLUNG-PI	FINAL RINSE-PI	RINCAGE FINAL-PI	**50**
4.0	**TANKABDECKSIEB**	**TANK COVERING SIEVE**	**TAMIS DE RECOUVREMENT DE BAC**	
4.1	TANKABDECKSIEB-KV	TANK COVERING SIEVE-KV	TAMIS DE RECOUVR. DE BAC-KV	**52**
4.2	TANKABDECKSIEB-CSS	TANK COVERING SIEVE-CSS	TAMIS DE RECOUVR. DE BAC-CSS	**53**
4.3	TANKABDECKSIEB	TANK COVERING SIEVE	TAMIS DE RECOUVR. DE BAC	**54**
4.4	TANKABDECKSIEB	TANK COVERING SIEVE	TAMIS DE RECOUVR. DE BAC	**55**
4.5	TANKABDECKSIEB	TANK COVERING SIEVE	TAMIS DE RECOUVR. DE BAC	**56**
5.0	**TANKABLAUF**	**DRAIN**	**VIDANGE**	
5.1	TANKABLAUF-KV	DRAIN-KV	VIDANGE-KV	**57**
5.2	TANKABLAUF-CSS	DRAIN-CSS	VIDANGE-CSS	**58**
5.3	TANKABLAUF	DRAIN	VIDANGE	**59**
5.4	TANKABLAUF	DRAIN	VIDANGE	**61**
6.0	**WASCHPUMPE**	**WASH PUMP**	**POMPE DE LAVAGE**	
6.1	WASCHPUMPE-KV	WASH PUMP-KV	POMPE DE LAVAGE-KV	**62**
6.2	WASCHPUMPE-CSS	WASH PUMP-CSS	POMPE DE LAVAGE-CSS	**64**
6.4	WASCHPUMPE 1,7KW	WASH PUMP 1,7KW	POMPE DE LAVAGE 1,7KW	**66**
6.5	WASCHPUMPE	WASH PUMP	POMPE DE LAVAGE	**68**
6.6	WASCHPUMPE	WASH PUMP	POMPE DE LAVAGE	**70**
7.0	**TROCKNUNG**	**DRYING**	**SECHAGE**	**73**

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ERSATZTEILLISTE

SPARE PARTS LIST

LISTE DE PIECES DETACHEES

	INHALTSVERZEICHNIS	CONTENTS	SOMMAIRE	SEITE PAGE
8.0	**TÜR**	**DOOR**	**PORTE**	
8.1	TÜR 500	DOOR 500	PORTE 500	**74**
8.2	TÜR 800	DOOR 800	PORTE 800	**76**
8.3	TÜR 1200	DOOR 1200	PORTE 1200	**78**
9.0	**FRISCHWASSERINSTALLATION**	**FRESH WATER INSTALLATION**	**INSTALLATION A EAU CLAIRE**	**80**
9.1.2	FRISCHWASSERNETZTRENNUNG	FRESH WATER MAINS ISOLATING DEVICE	DISPOSITIF DE ISOLEMENT DU RESEAU DE EAU	**84**
9.2	FILTER	FILTER	FILTRE	**86**
9.3	DRUCKMINDERVENTIL	PRESSURE REDUCING VALVE	REDUCTEUR DE PRESSION	**87**
9.4	MAGNETVENTIL	SOLENOID VALVE	ELECTROVANNE	**88**
9.5	DURCHFLUSSMESSER	FLOW CONTROL	DEBIT METRE	**90**
9.6	ÜBERDRUCKVENTIL	OVERPRESSURE VALVE	SOUPAPE DE SURPRESSION	**91**
9.7	NETZMITTELMISCHBEHÄLTER	RINSE-AID MIXING CHAMBER	RESERVOIR DE MELANGE DE PRODUIT DE RINCAGE	**92**
9.8	WÄRMETAUSCHER	HEAT EXCHANGER	EXCHANGEUR DE CHALEUR	**93**
9.9	ABSPERRSCHIEBER	STOP BAFFLE	CLAPET DE ARRET	**94**
9.10	MENGENREGLER	FLOW REGULATOR	REGULATEUR DE DEBIT	**95**
10.0	**HEIZUNG**	**HEATING**	**CHAUFFAGE**	
10.1	ELEKTROBEHEIZUNG	ELECTRICAL HEATING	CAUFFAGE ELECTRIQUE	**97**
10.1.1	TANKHEIZUNG ELEKTRISCH	TANK HEATING ELEMENT ELECTR.	RESISTANCE DU BAC ELECTR.	**98**
10.1.2	BOILER	BOILER	SURCHAFFEUR	**100**
10.1.3.1	BOILER	BOILER	SURCHAFFEUR	**102**
10.1.4	TROCKNUNGSHEIZREGISTER	DRYING-HEATING REGISTER	REGISTRE DE CHAUFF.-SECHAGE	**104**
11.0	**TAKTSCHALTER**	**INTERVAL SWITCH**	**INT. DE SYNCHRONISATION**	**106**
11.1	TAKTSCHALTER	INTERVAL SWITCH	INT. DE SYNCHRONISATION	**107**
11.2	TAKTSCHALTER PI	INTERVAL SWITCH PI	INT. DE SYNCHRONISATION PI	**108**
12.0	**FRISCHWASSERSPARSCHALTER**	**FRESH WATER SAVING DEVICE**	**INT. ECONOMISEUR EAU DE RINCAGE**	**108**
12.1	FRISCHWASSERSPARSCHALTER	FRESH WATER SAVING DEVICE	INT. ECONOMISEUR EAU DE RINCAGE	**109**
13.01	**UMWÄLZPUMPE FÜR WÄRMEPUMPE**	**CIRCULATION PUMP FOR HEAT PUMP**	**POMPE DE CIRCULATION POUR POMPE A CHALEUR**	**111**
13.02	KORBTRANSPORTSCHLITTEN	BASKET TRANSPORT SLIDE	COULISSEAU DE TRANSPORT	**114**
15.0	**ZUBEHÖR**	**ACCESSORIES**	**ACCESSOIRES**	
15.1.2	MASCHINENSTOLLEN	FEET OF MACHINE	PIEDS DE MACHINE	**119**
15.1.3	ROHRABDICHTUNG	TUBE PACKING	JOINT DE TUYAU	**120**
15.1.4	SCHWIMMERSCHALTER	FLOATING SWITCH	FLOTTEUR P. NIVEAU DE BAC	**121**
15.1.5	TISCHENDSCHALTER	TABLE END SWITCH	INTERRUPTEUR FIN DE COURSE	**123**
15.2.1.1	TANKABLAUF	DRAIN	VIDANGE	**124**
15.2.2	ABSAUGGEBLÄSE	EXTRACTION FAN	VENTILATEUR D'ASPIRATION	**126**
15.2.3	ABSAUGGEBLÄSE	EXTRACTION FAN	VENTILATEUR D`ASPIRATION	**127**
15.2.4	RADIALGEBLÄSE	RADIAL FAN	VENTILATEUR RADIAL	**128**
15.2.5	FROSTSCHUTZWÄCHTER	ANTI-FREEZE PROTECTION	PROTECTEUR ANTI-GEL	**129**
15.2.6	SCHWIMMERSCHALTER	FLOATING SWITCH	FLOTTEUR P. NIVEAU DE BAC	**130**
16.1	KURVE 90°	CURVE 90°	COURBE 90°	**132**
16.2	KURVE 180°	CURVE 180°	COURBE 180°	**134**

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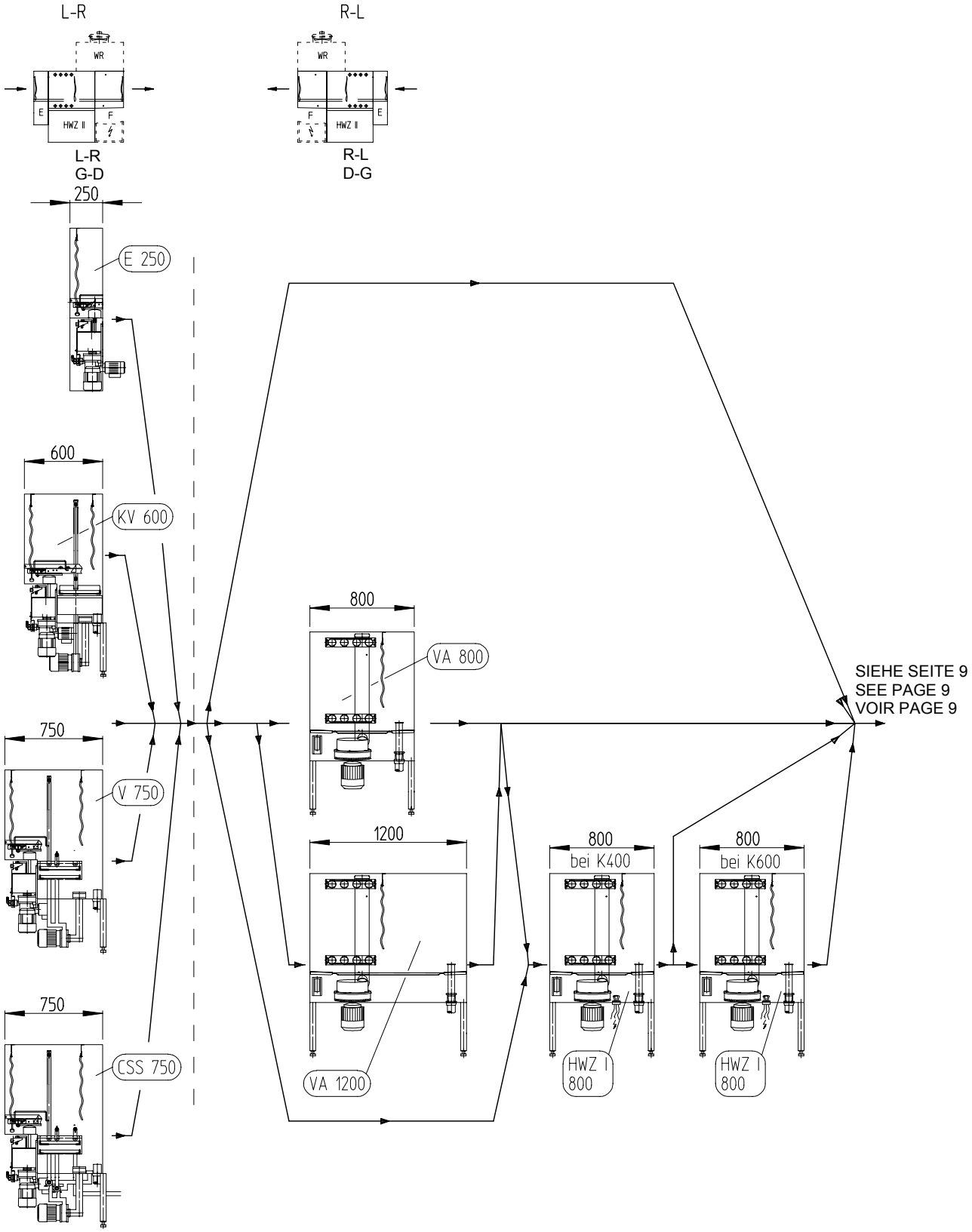
ERSATZTEILLISTE

SPARE PARTS LIST

LISTE DE PIECES DETACHEES



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ERSATZTEILLISTE

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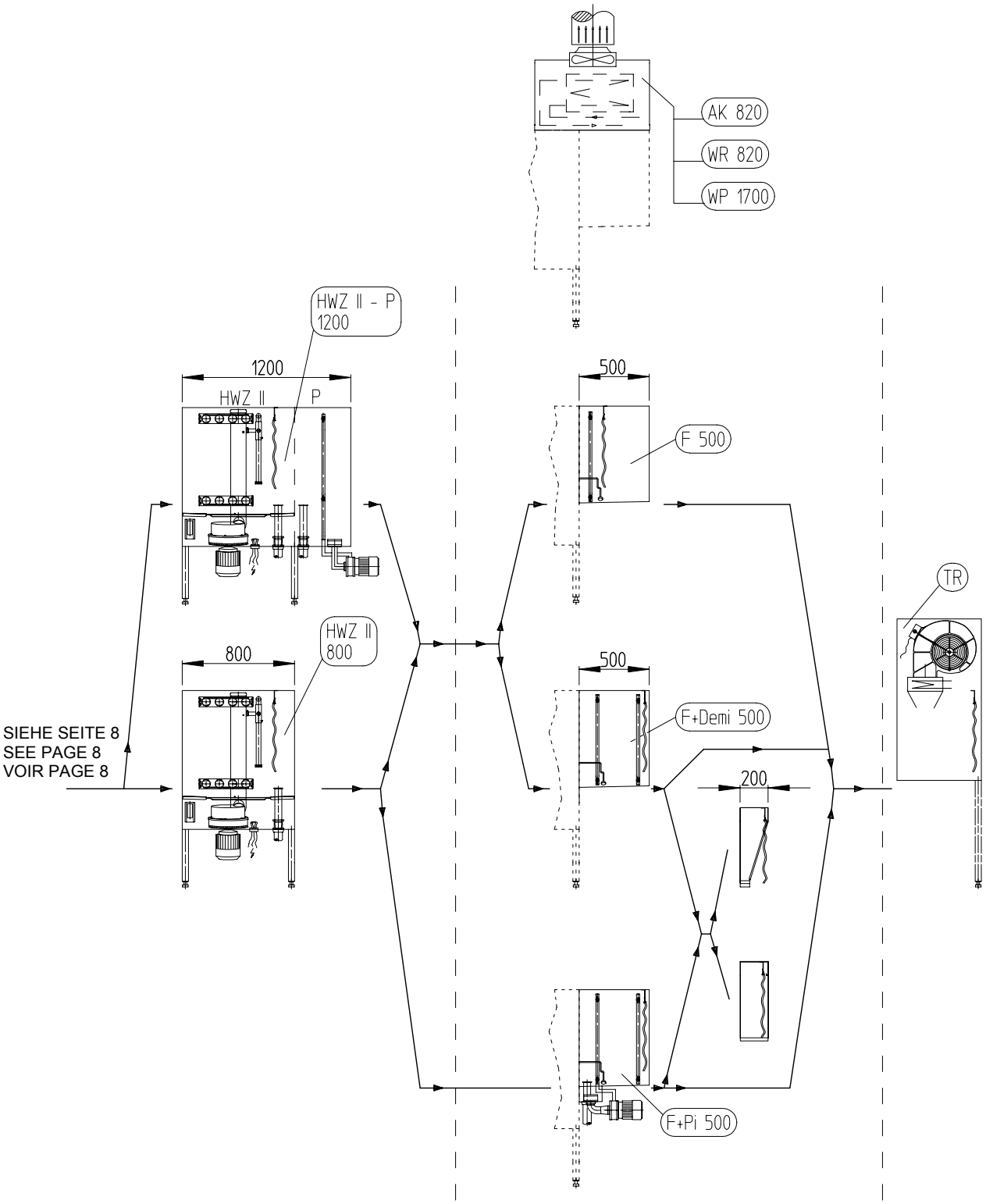
LISTE DE PIECES DETACHEES



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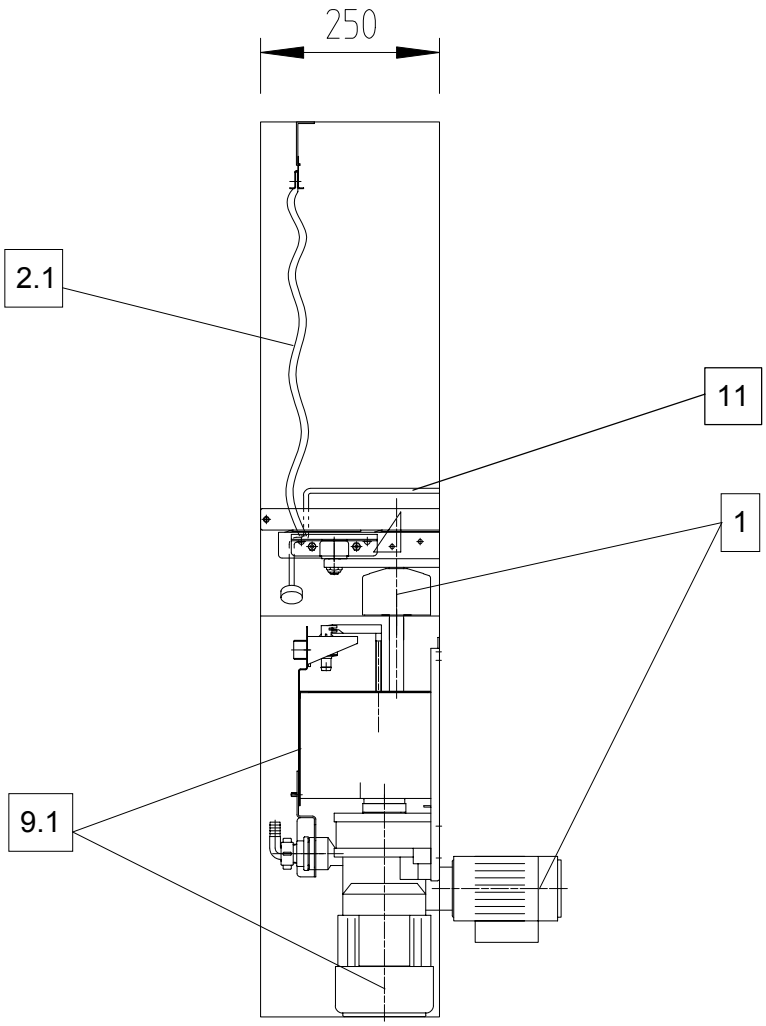
E 250 (EINLAUF 250MM)

E 250 (FEEDING TUNNEL 250MM)

E 250 (TUNNEL D' ENTREE 250MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
1	ANTRIEB	DRIVE	ENTRAINEMENT
2.1	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
9.1	FRISCHWASSERNETZTRENNUNG	FRESH WATER MAINS ISOLATING DEVICE	DISPOSITIF DE ISOLEMENT DU RESEAU DE EAU
11	TAKTSCHALTER	INTERVAL SWITCH	INTERRUPTEUR DE SYNCHRONISATION

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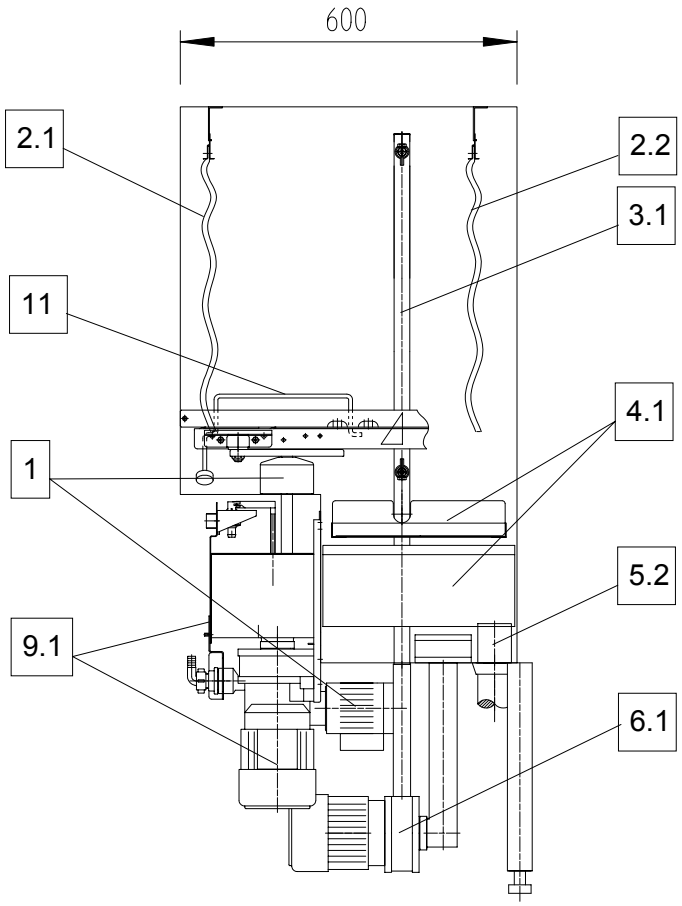
KV 600 (KLEINE VORABRÄUMUNG 600MM)

KV 600 (COMPACT PRE-WASH ZONE 600MM)

KV 600 (ZONE DE PRELAVAGE COMPACTE 600MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
1	ANTRIEB	DRIVE	ENTRAINEMENT
2.1	VORHANG 650X400	CURTAIN 650X400	RIDEAU 650X400
2.2	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
3.1	WASCHSYSTEM-KV	WASH SYSTEM-KV	SYSTEME DE LAVAGE-KV
4.1	SIEB-KV	SIEVE-KV	TAMIS-KV
5.1	ABLAUF	DRAIN	VIDANGE
6.1	WASCHPUMPE-KV	WASH PUMP-KV	POMPE DE LAVAGE-KV
9.1	FRISCHWASSERNETZTRENNUNG	FRESH WATER MAINS ISOLATING DEVICE	DISPOSITIF DE ISOLEMENT DU RESEAU DE EAU
11	TAKTSCHALTER	INTERVAL SWITCH	INTERRUPTEUR DE SYNCHRONISATION

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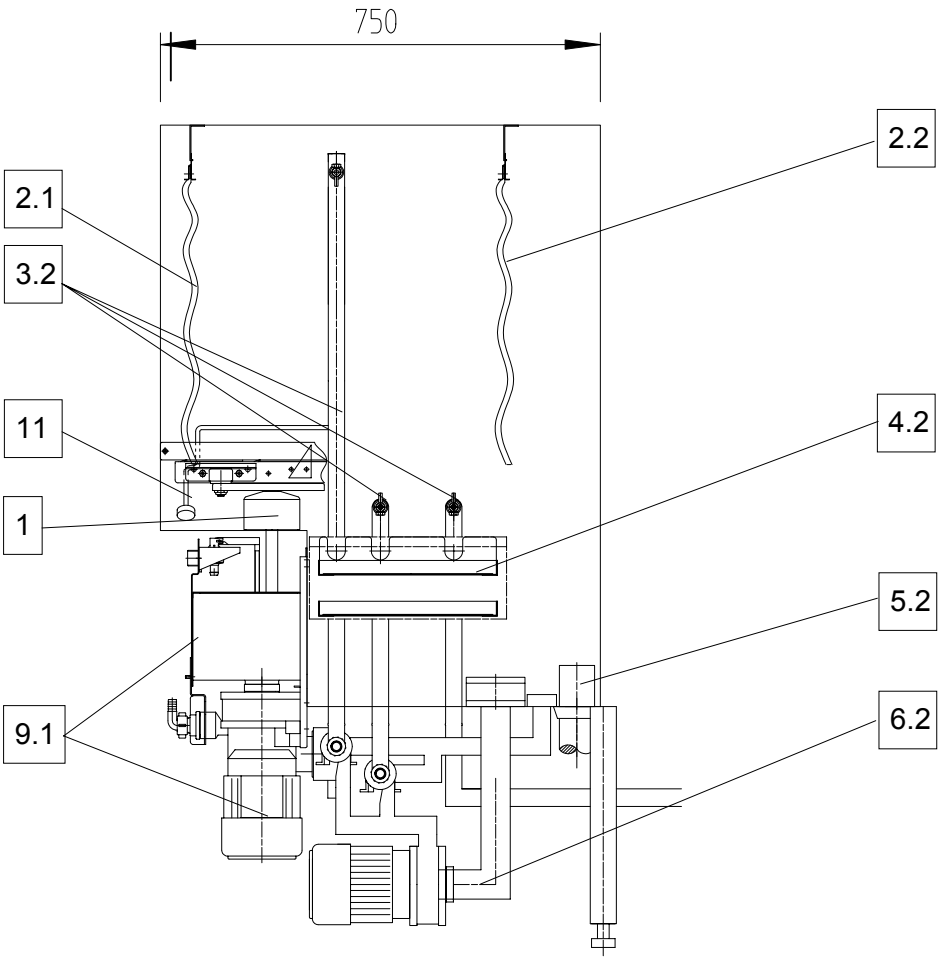
CSS 750 (CHEMIESPARSYSTEMZONE 750MM)

CSS 750 (CSS ZONE 750MM)

CSS 750 (ZONE CSS 750MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
1	ANTRIEBE	DRIVE	ENTRAINEMENT
2.1	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
2.2	VORHANG 650X400	CURTAIN 650X400	RIDEAU 650X400
3.2	WASCHSYSTEM-CSS	WASH SYSTEM-CSS	SYSTEME DE LAVAGE-CSS
4.2	SIEB-CSS	SIEVE-CSS	TAMIS-CSS
5.2	ABLAUF	DRAIN	VIDANGE
6.2	WASCHPUMPE-CSS	WASH PUMP-CSS	POMPE DE LAVAGE-CSS
9.1	FRISCHWASSERNETZTRENNUNG	FRESH WATER MAINS ISOLATING DEVICE	DISPOSITIF DE ISOLEMENT DU RESEAU DE EAU
11	TAKTSCHALTER	INTERVAL SWITCH	INTERRUPTEUR DE SYNCHRONISATION

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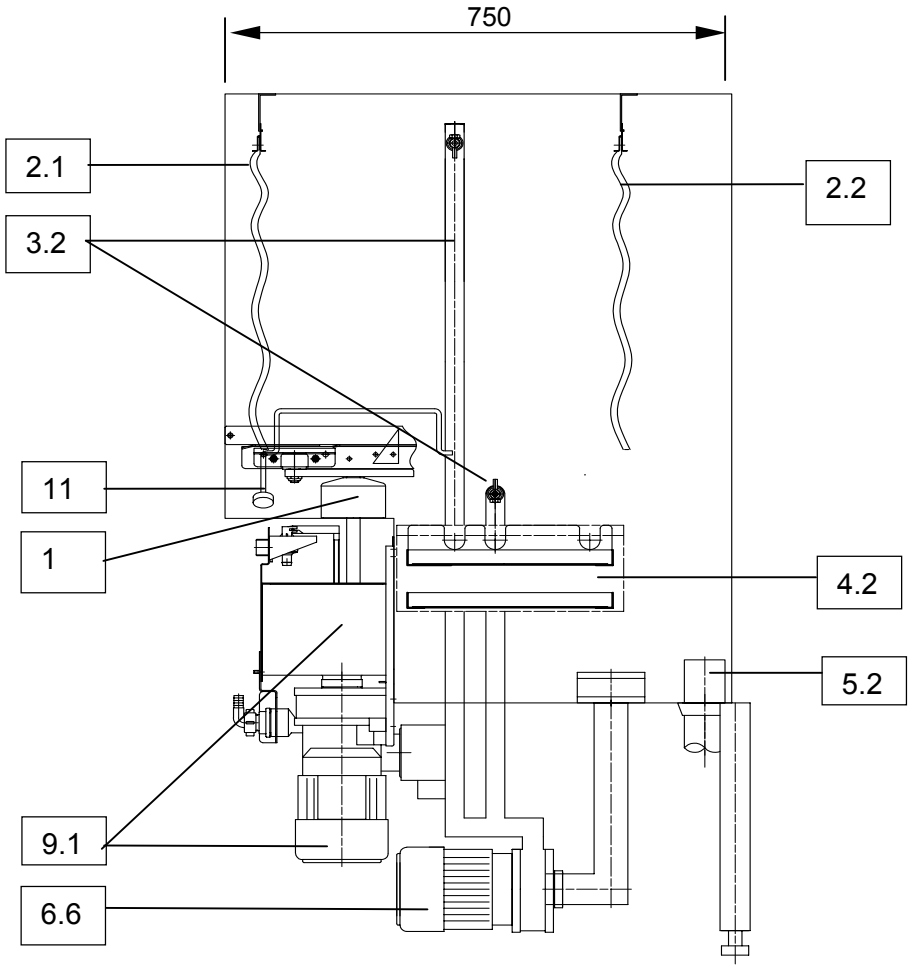
V 750 (VORABRÄUMUNG 750MM)

V 750 (PRE-WASH ZONE 750MM)

V750 (ZONE DE PRELAVAGE 750MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
2.1	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
2.2	VORHANG 650X400	CURTAIN 650X400	RIDEAU 650X400
3.2	WASCHSYSTEM-V	WASH SYSTEM-V	SYSTEME DE LAVAGE-V
4.2	SIEB	SIEVE	TAMIS
5.2	ABLAUF	DRAIN	VIDANGE
6.6	WASCHPUMPE V750	WASH PUMP V750	POMPE DE LAVAGE V750
9.1	FRISCHWASSERNETZTRENNUNG	FRESH WATER MAINS ISOLATING DEVICE	DISPOSITIF DE ISOLEMENT DU RESEAU DE EAU
11	TAKTSCHALTER	INTERVAL SWITCH	INTERRUPTEUR DE SYNCHRONISATION

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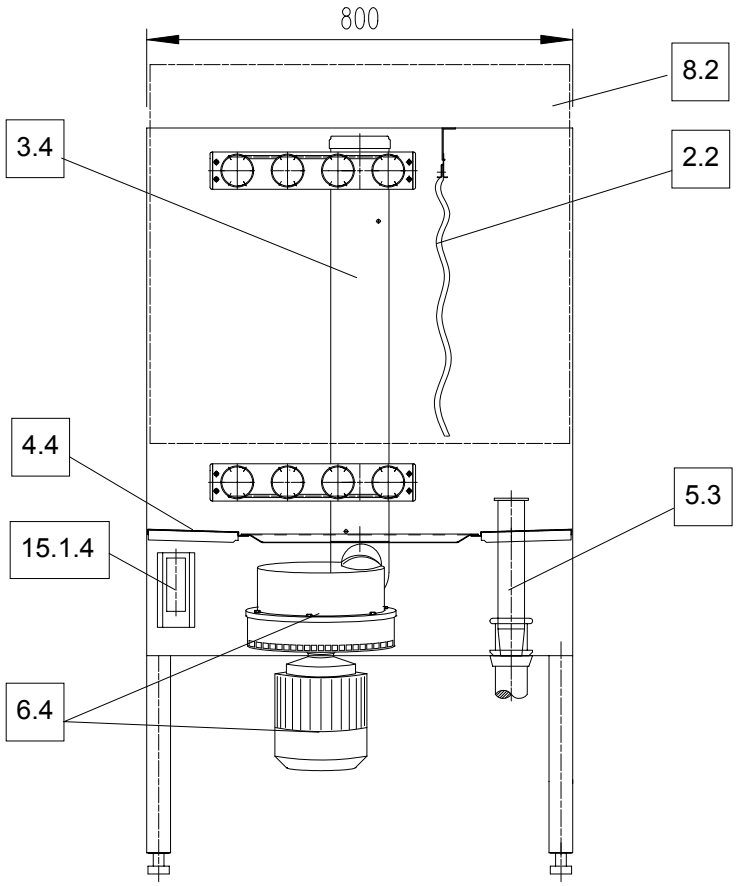
VA 800 (VORABRÄUMUNG 800MM)

VA 800 (PRE-WASH ZONE 800MM)

VA 800 (ZONE DE PRELAVAGE 800MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
2.2	VORHANG 650X400	CURTAIN 650X400	RIDEAU 650X400
3.4	WASCHSYSTEM VA/HWZ	WASH SYSTEM VA/HWZ	SYSTEME DE LAVAGE VA/HWZ
4.4	SIEB	SIEVE	TAMIS
5.3	ABLAUF	DRAIN	VIDANGE
6.4	WASCHPUMPE 1,7KW	WASH PUMP 1,7KW	POMPE DE LAVAGE 1,7KW
8.2	TÜR 800	DOOR 800	PORTE 800
15.1.4	SCHWIMMERSCHALTER	FLOATING SWITCH	FLOTTEUR POUR NIVEAU DE BAC

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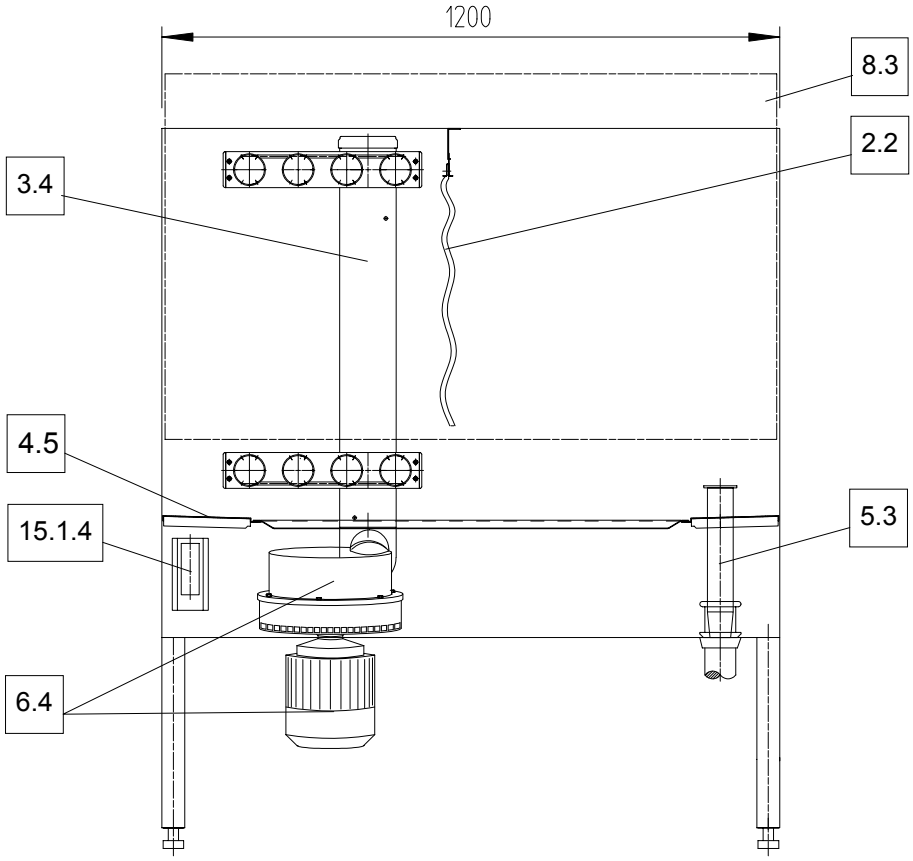
VA 1200 (VORABRÄUMUNG 1200MM)

VA 1200 (PRE-WASH ZONE 1200MM)

VA 1200 (ZONE DE PRELAVAGE 1200MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
2.2	VORHANG 650X400	CURTAIN 650X400	RIDEAU 650X400
3.4	WASCHSYSTEM VA/HWZ	WASH SYSTEM VA/HWZ	SYSTEME DE LAVAGE VA/HWZ
4.5	SIEB	SIEVE	TAMIS
5.3	ABLAUF	DRAIN	VIDANGE
6.4	WASCHPUMPE 1,7KW	WASH PUMP 1,7KW	POMPE DE LAVAGE 1,7KW
8.3	TÜR 1200	DOOR 1200	PORTE 1200
15.1.4	SCHWIMMERSCHALTER	FLOATING SWITCH	FLOTTEUR POUR NIVEAU DE BAC

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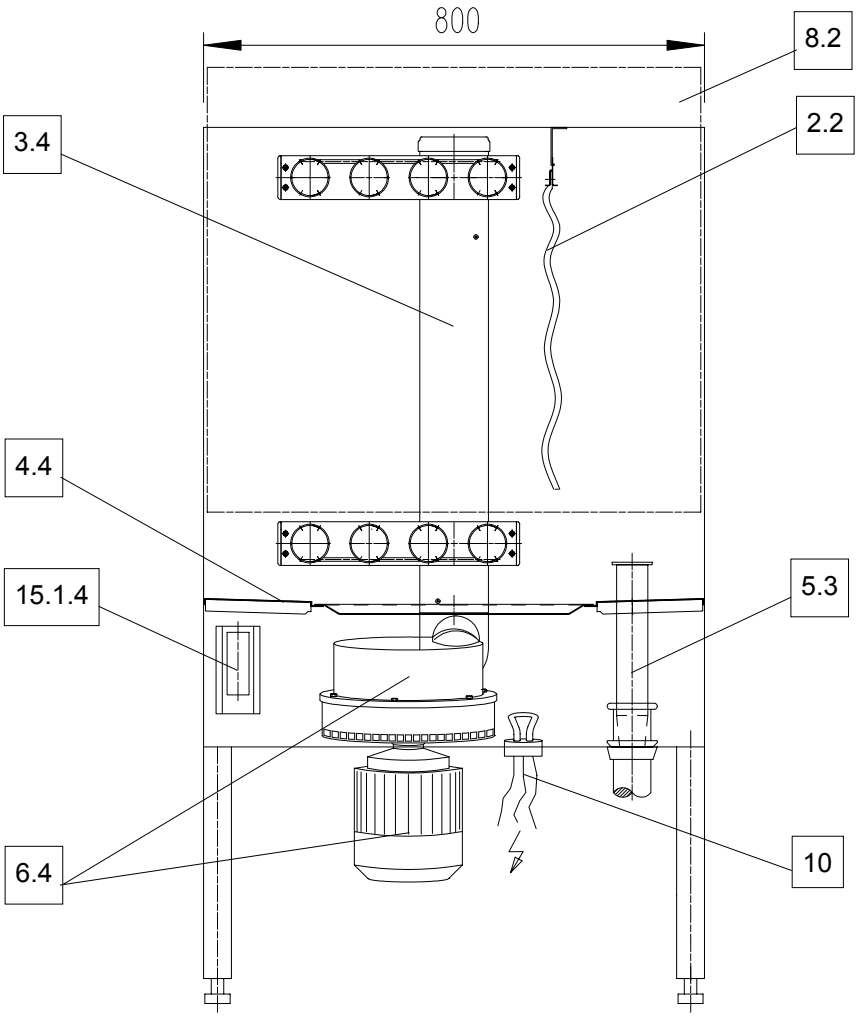
HWZ I 800 (HAUPTWASCHZONE I 800MM)

HWZ I 800 (WASH ZONE I 800MM)

HWZ I 800 (ZONE DE LAVAGE I 800MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
2.2	VORHANG 650X400	CURTAIN 650X400	RIDEAU 650X400
3.4	WASCHSYSTEM VA/HWZ	WASH SYSTEM VA/HWZ	SYSTEME DE LAVAGE VA/HWZ
4.4	SIEB	SIEVE	TAMIS
5.3	ABLAUF	DRAIN	VIDANGE
6.4	WASCHPUMPE 1,7KW	WASH PUMP 1,7KW	POMPE DE LAVAGE 1,7KW
8.2	TÜR 800	DOOR 800	PORTE 800
10	HEIZUNG	HEATING ELEMENT	RESISTANCE
15.1.4	SCHWIMMERSCHALTER	FLOATING SWITCH	FLOTTEUR POUR NIVEAU DE BAC

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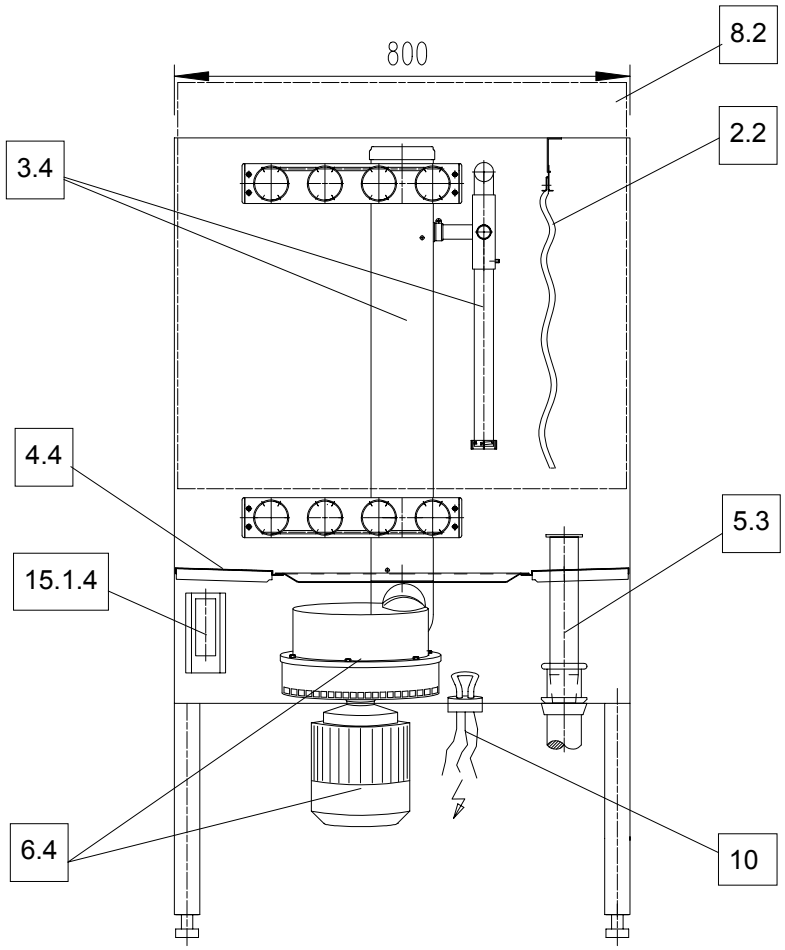
HWZ II 800 (HAUPTWASCHZONE II 800MM)

HWZ II 800 (WASH ZONE II 800MM)

HWZ II 800 (ZONE DE LAVAGE II 800MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
2.2	VORHANG 650X400	CURTAIN 650X400	RIDEAU 650X400
3.4	WASCHSYSTEM VA/HWZ	WASH SYSTEM VA/HWZ	SYSTEME DE LAVAGE VA/HWZ
4.4	SIEB	SIEVE	TAMIS
5.3	ABLAUF	DRAIN	VIDANGE
6.4	WASCHPUMPE 1,7KW	WASH PUMP 1,7KW	POMPE DE LAVAGE 1,7KW
8.2	TÜR 800	DOOR 800	PORTE 800
10	HEIZUNG	HEATING ELEMENT	RESISTANCE
15.1.4	SCHWIMMERSCHALTER	FLOATING SWITCH	FLOTTEUR POUR NIVEAU DE BAC

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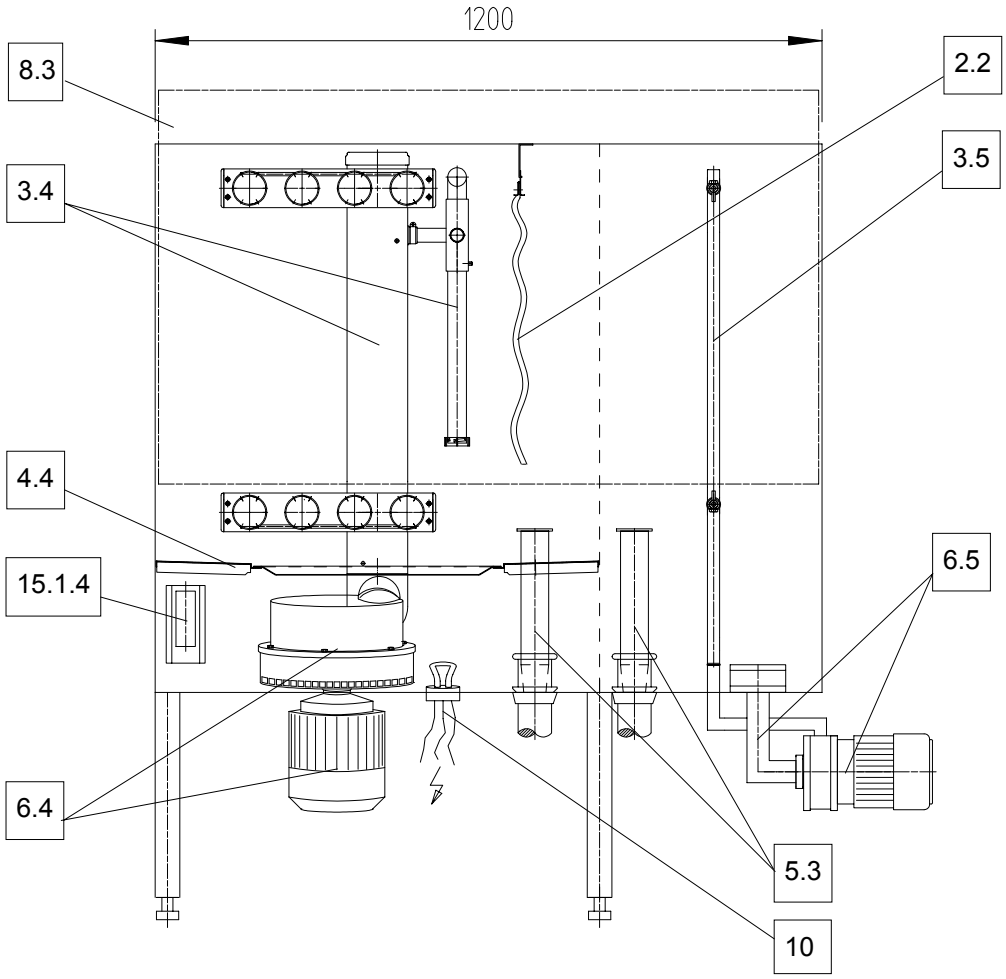
HWZ II-P 1200 (HAUPTWASCHZONE II MIT PUMPENKLARSPÜLUNG 1200MM)

HWZ II-P 1200 (WASH ZONE II WITH PUMP RINSE 1200MM)

HWZ II-P 1200 (ZONE DE LAVAGE II AVEC RINCAGE A POMPE 1200MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
2.2	VORHANG 650X400	CURTAIN 650X400	RIDEAU 650X400
3.4	WASCHSYSTEM VA/HWZ	WASH SYSTEM VA/HWZ	SYSTEME DE LAVAGE VA/HWZ
3.5	PUMPENKLARSPÜLUNG	PUMP FINAL RINSE	RINCAGE FINAL A POMPE
4.4	SIEB	SIEVE	TAMIS
5.3	ABLAUF	DRAIN	VIDANGE
6.4	WASCHPUMPE 1,7KW	WASH PUMP 1,7KW	POMPE DE LAVAGE 1,7KW
6.5	WASCHPUMPE	WASH PUMP	POMPE DE LAVAGE
8.3	TÜR 1200	DOOR 1200	PORTE 1200
10	HEIZUNG	HEATING ELEMENT	RESISTANCE
15.1.4	SCHWIMMERSCHALTER	FLOATING SWITCH	FLOTTEUR POUR NIVEAU DE BAC

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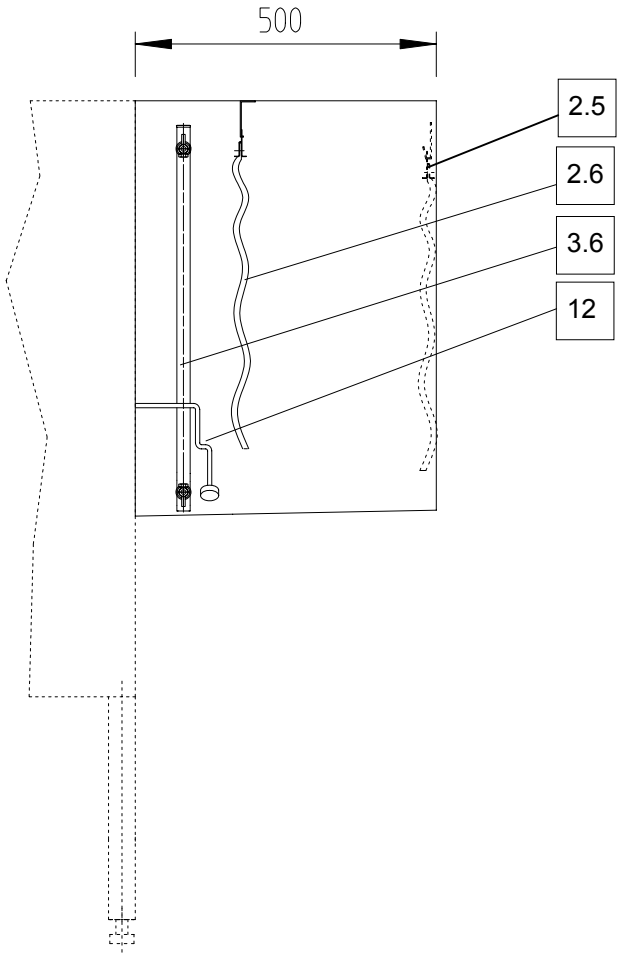
F 500 (FRISCHWASSERKLARSPÜLZONE 500MM)

F 500 (FRESH WATER FINAL RINSE ZONE 500MM)

F 500 (ZONE DE RINCAGE FINAL 500MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
2.1	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
3.6	FRISCHWASSERKLARSPÜLUNG	FRESH WATER FINAL RINSE	RINCAGE FINAL A L'EAU CLAIRE
12	FRISCHWASSERSPARSCHALTER	FRESH WATER SAVING DEVICE	INT. ECONOMISEUR EAU DE RINCAGE

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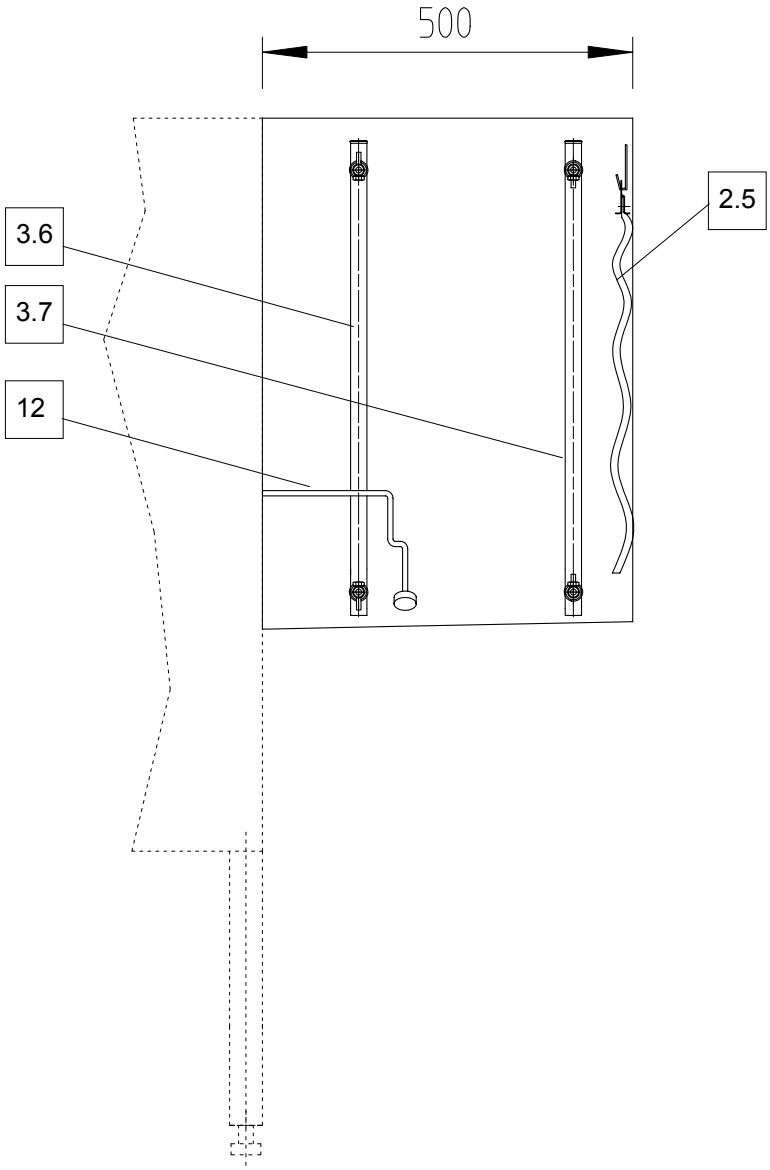
F + DEMI 500 (FRISCHWASSERKLARSPÜLZONE MIT DEMIKLARSPÜLUNG 500MM)

F + DEMI 500 (FRESH WATER FINAL RINSE ZONE WITH DEMI. RINSING 500MM)

F + DEMI 500 (ZONE DE RINCAGE FINAL AVEC RINCAGE EAU DEMI 500MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
2.4	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
3.6	FRISCHWASSERKLARSPÜLUNG	FRESH WATER FINAL RINSE	RINCAGE FINAL A L'EAU CLAIRE
3.7	KLARSPÜLUNG-DEMI	FINAL RINSE-DEMI	RINCAGE FINAL-DEMI
12	FRISCHWASSERSPARSCHALTER	FRESH WATER SAVING DEVICE	INT. ECONOMISEUR EAU DE RINCAGE

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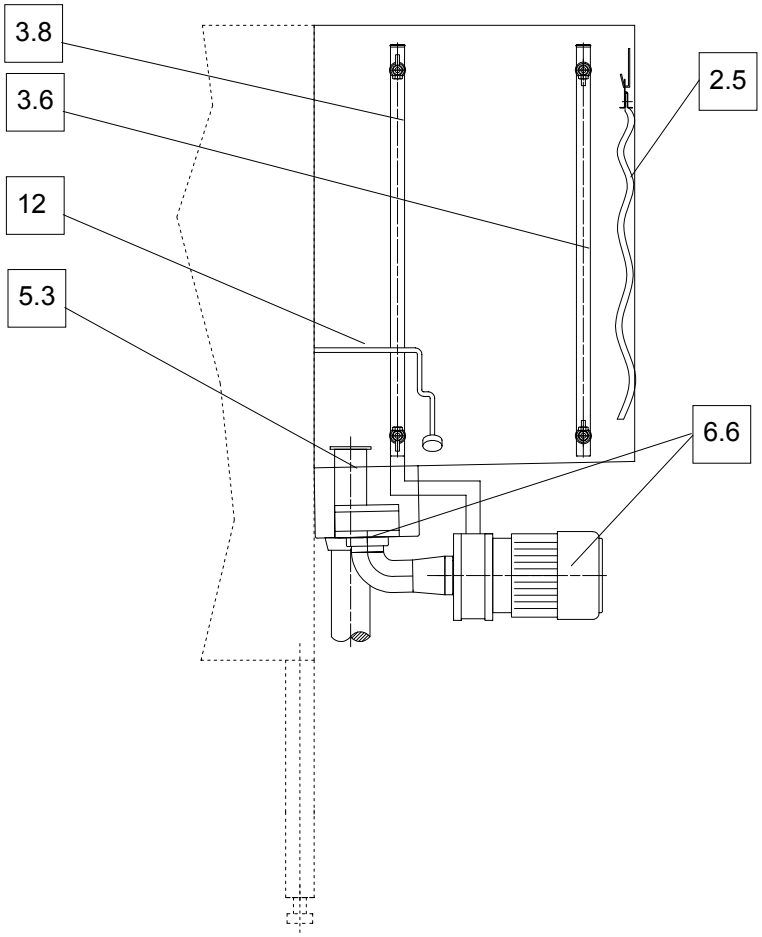
F + PI 500 (FRISCHWASSERKLARSPÜLZONE MIT INTEGRIERTER PUMPENKLARSPÜLUNG 500MM)

F + PI 500 (FRESH WATER FINAL RINSE ZONE WITH INTEGRATED PUMP RINSE 500MM)

F + PI 500 (ZONE DE RINCAGE FINAL AVEC RINCAGE A POMPE INTEGRE 500MM)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
2.1	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
3.6	FRISCHWASSERKLARSPÜLUNG	FRESH WATER FINAL RINSE	RINCAGE FINAL A L'EAU CLAIRE
3.8	KLARSPÜLUNG-PI	FINAL RINSE-PI	RINCAGE FINAL-PI
5.3	ABLAUF	DRAIN	VIDANGE
6.6	WASCHPUMPE-PI	WASH PUMP-PI	POMPE DE LAVAGE-PI
12	FRISCHWASSERSPARSCHALTER	FRESH WATER SAVING DEVICE	INT. ECONOMISEUR EAU DE RINCAGE

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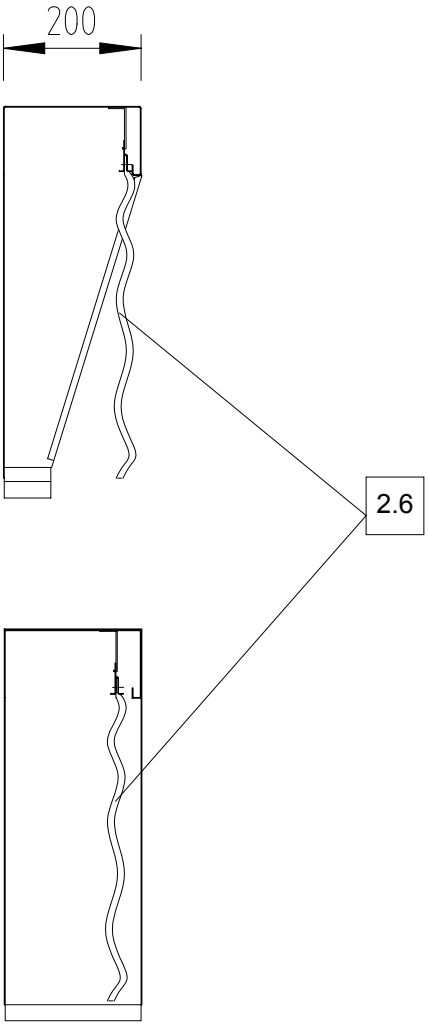
SPRITZSCHUTZTUNNEL

FEEDING TUNNEL

SAS DE ENTREE



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
2.1	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480

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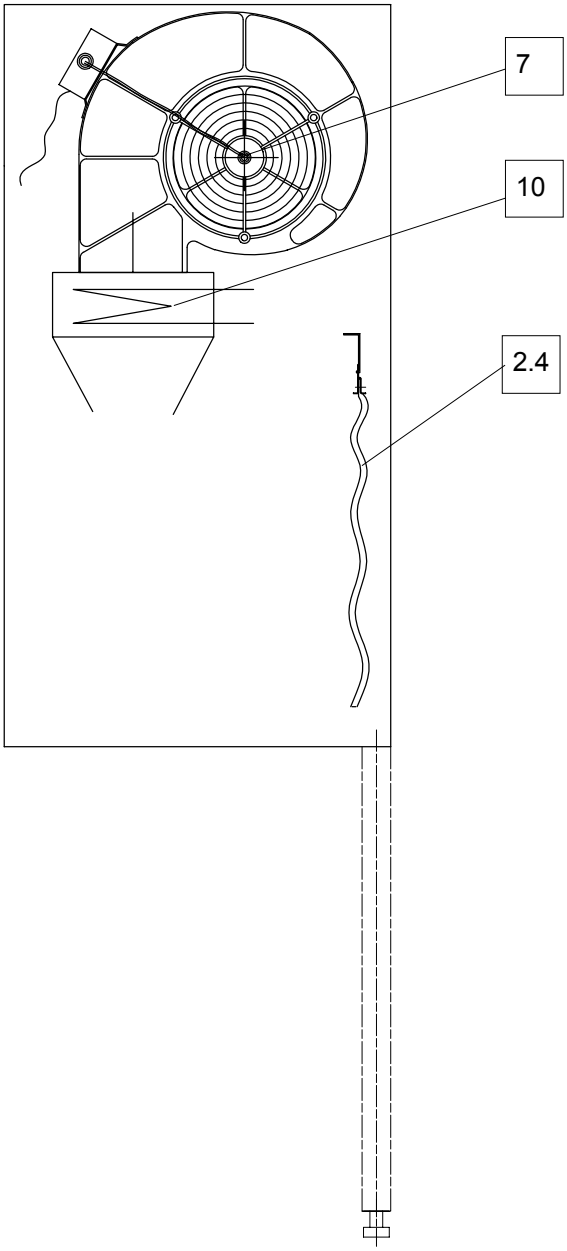
TROCKNUNG

DRYING

SECHAGE



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
2.4	VORHANG TROCKNUNG	CURTAIN DRYING	RIDEAU SECHAGE
7	TROCKNUNG	DRYING	SECHAGE
10	HEIZUNG	HEATING ELEMENT	RESISTANCE

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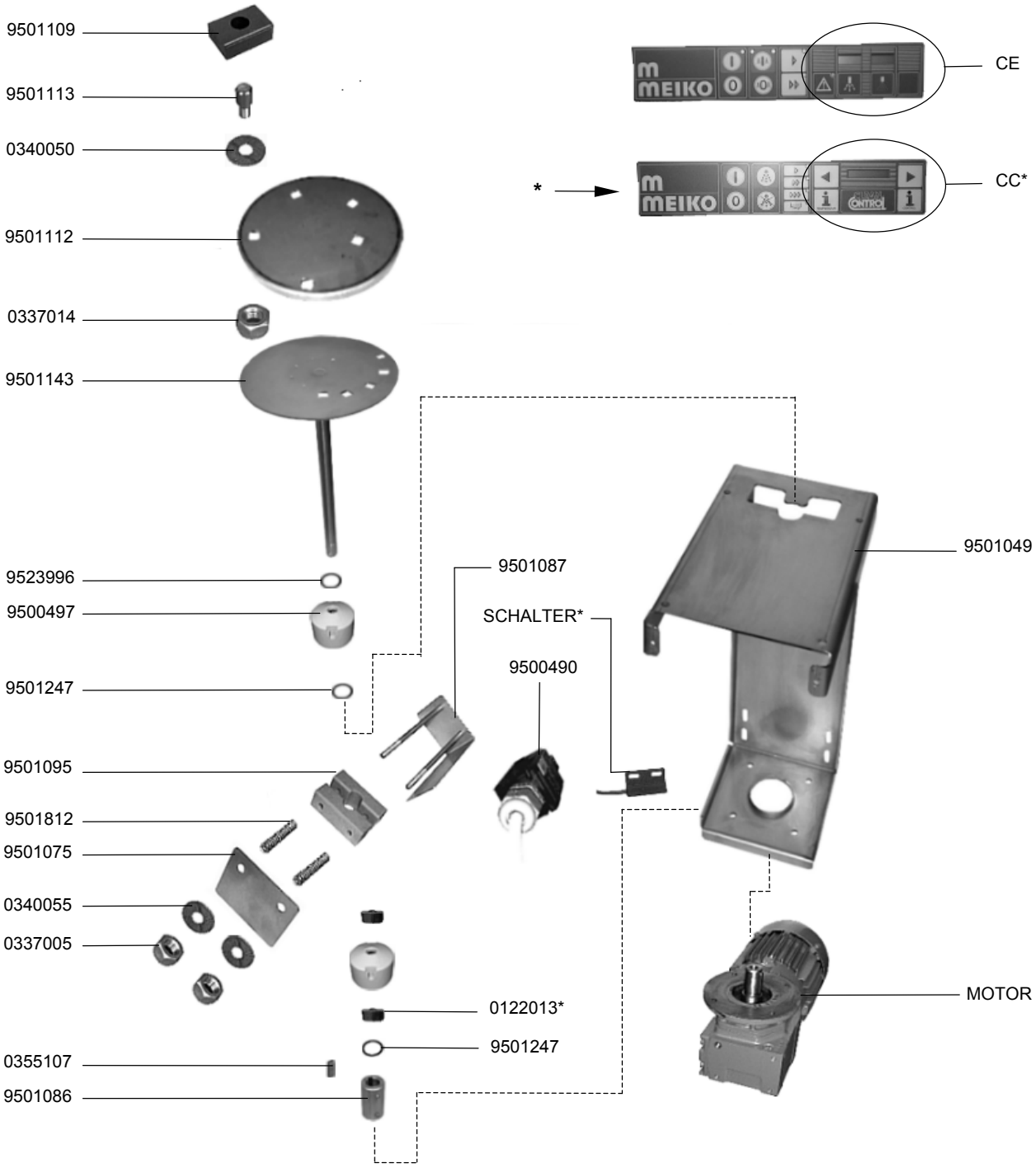
1 KORBTRANSPORT

1 BASKET TRANSPORT

1 TRANSPORT DE CASIERS



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1 KORBTRANSPORT

1 BASKET TRANSPORT

1 TRANSPORT DE CASIERS

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	MOTOR	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	9501049	KONSOLE	CONSOLE	CONSOLE
V	9501109	KULISSENSTEIN	SLIDING BLOCK	COULISSEAU
	9501113	KURBELBOLZEN	CRANK BOLT	BOULON A MANIVELLE
	0340050	SCHEIBE	DISK	DISQUE
	9501112	ABDECKUNG	COVER	CHAPE
	0337014	MUTTER M12	NUT M12	ECROU M12
	9501143	KURBELTRIEB	CRANK GEAR	TRANSMISSION A BIELE
	9523996	DISTANZBUCHSE	SPACER	DOVILLE DE ECARTEMENT
	9500497	ABDECKUNG	COVER	RECOUVREMENT
*	9501247	O-RING	O-RING	BAGUE
	0355107	PASSFEDER	FEATHER KEY	RESSORT DE AJUSTAGE
	9501086	STECKKUPPLUNG	SLEEVE COUPLER	DISPOSITIF DE ACCOUPLEMENT
	0122013	MAGNET	MAGNET	AIMANT
	9500490	STÖSSEL	TAPPET	POUSSOIR
	SCHALTER	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
		GÜLTIG BIS 03.2004	VALABLEALID TO 03.2004	VALIDE JUSQU`AU 03.2004
	9501095	LAGERSCHALE	BEARING PILLOW	COQUILLE DE SUPPORT
	9501812	DRUCKFEDER	PRESSURE SPRING	RESSORT DE PRESSION
	9501075	SCHALTBLECH	SWITCHING LEVER	LEVIER INTERRUPTEUR
	0340055	SCHEIBE	DISK	DISQUE
	0337005	MUTTER M8	NUT M8	ECROU M8
	9501087	SPANNPLATTE	TIGHTENING PLATE	TAQUE DE SERRAGE

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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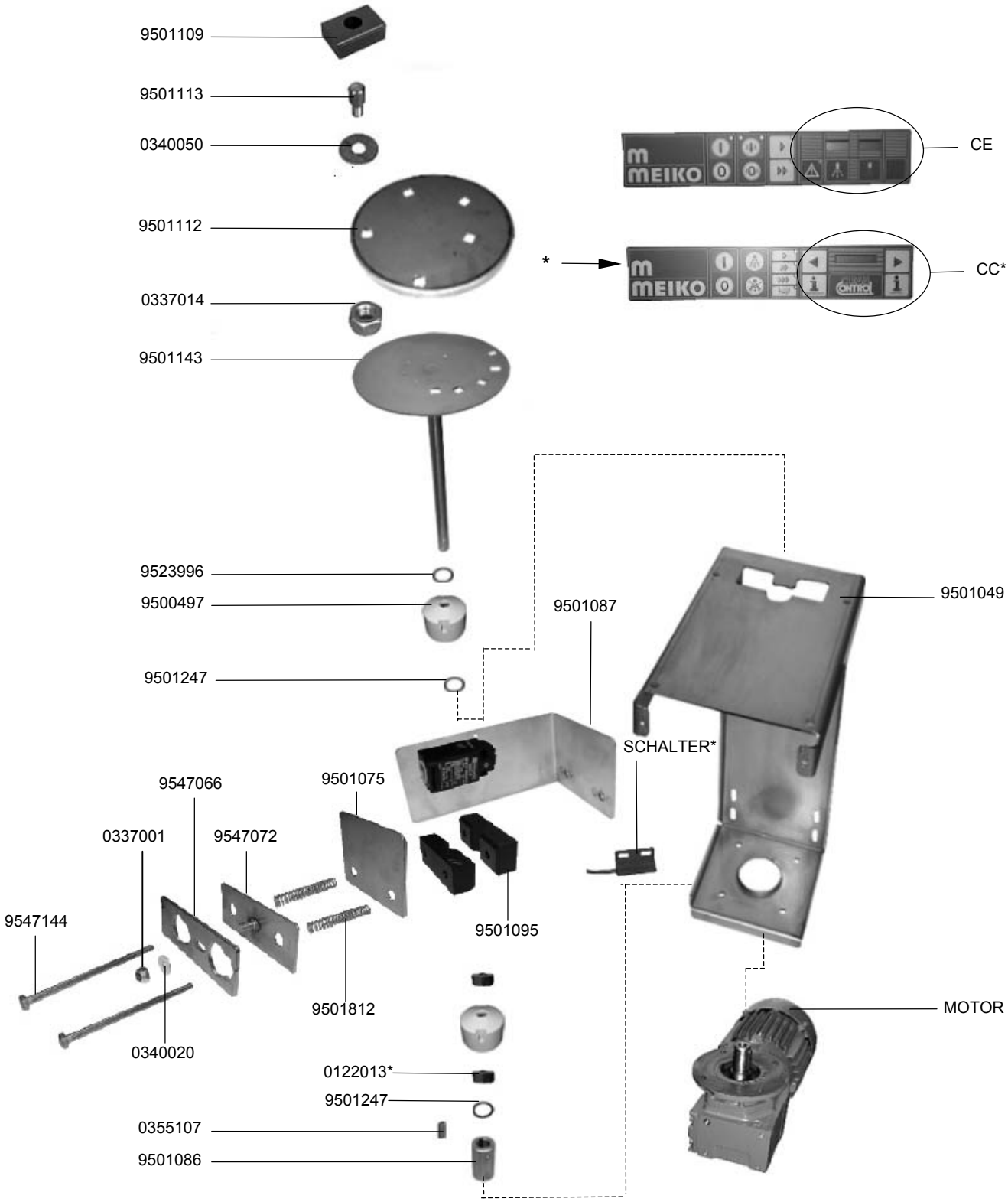
1.1 KORBTRANSPORT

1.1 BASKET TRANSPORT

1.1 TRANSPORT DE CASIERS



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1.1 KORBTRANSPORT

1.1 BASKET TRANSPORT

1.1 TRANSPORT DE CASIERS

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	MOTOR	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	9501049	KONSOLE	CONSOLE	CONSOLE
V	9501109	KULISSENSTEIN	SLIDING BLOCK	COULISSEAU
	9501113	KURBELBOLZEN	CRANK BOLT	BOULON A MANIVELLE
	0340050	SCHEIBE	DISK	DISQUE
	9501112	ABDECKUNG	COVER	CHAPE
	0337014	MUTTER M12	NUT M12	ECROU M12
	9501143	KURBELTRIEB	CRANK GEAR	TRANSMISSION A BIELE
	9523996	DISTANZBUCHSE	SPACER	DOVILLE DE ECARTEMENT
	9500497	ABDECKUNG	COVER	RECOUVREMENT
*	9501247	O-RING	O-RING	BAGUE
	0122013	MAGNET	MAGNET	AIMANT
	9500490	STÖSSEL	TAPPET	POUSSOIR
	SCHALTER	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
		GÜLTIG AB 01.04.2004	VALID FROM 01.04.2004	VALABLE Á PARTIR DU 01.04.2004
	9547144	SKT.-SCHRAUBE M8X160	HEXAGON SCREW M8X160	VIS A 6 PANS M8X160
	0337001	SECHSKANT-MUTTER M5	HEXAGON NUT M5	ÉCROU HEXAGONAL M5
	0340020	U-SCHEIBE Ø5,3X15	SUPPORT DISC Ø5,3X15	RONDELLE Ø5,3X15
	9547066	SICHERUNGSLASCHE	SECURITY BRACKET	COLLIER DE FIXATION DE SE´CURITE´
	9547072	HALTEBLECH	FIXING PANEL	TOLE DE SUPPORT
	9501812	DRUCKFEDER	PRESSURE SPRING	RESSORT DE PRESSION
	9501075	SCHALTBLECH	SWITCHING LEVER	LEVIER INTERRUPTEUR
V	9501095	LAGERSCHALE	BEARING PILLOW	COQUILLE DE SUPPORT
	9501087	SPANNPLATTE	TIGHTENING PLATE	TAQUE DE SERRAGE

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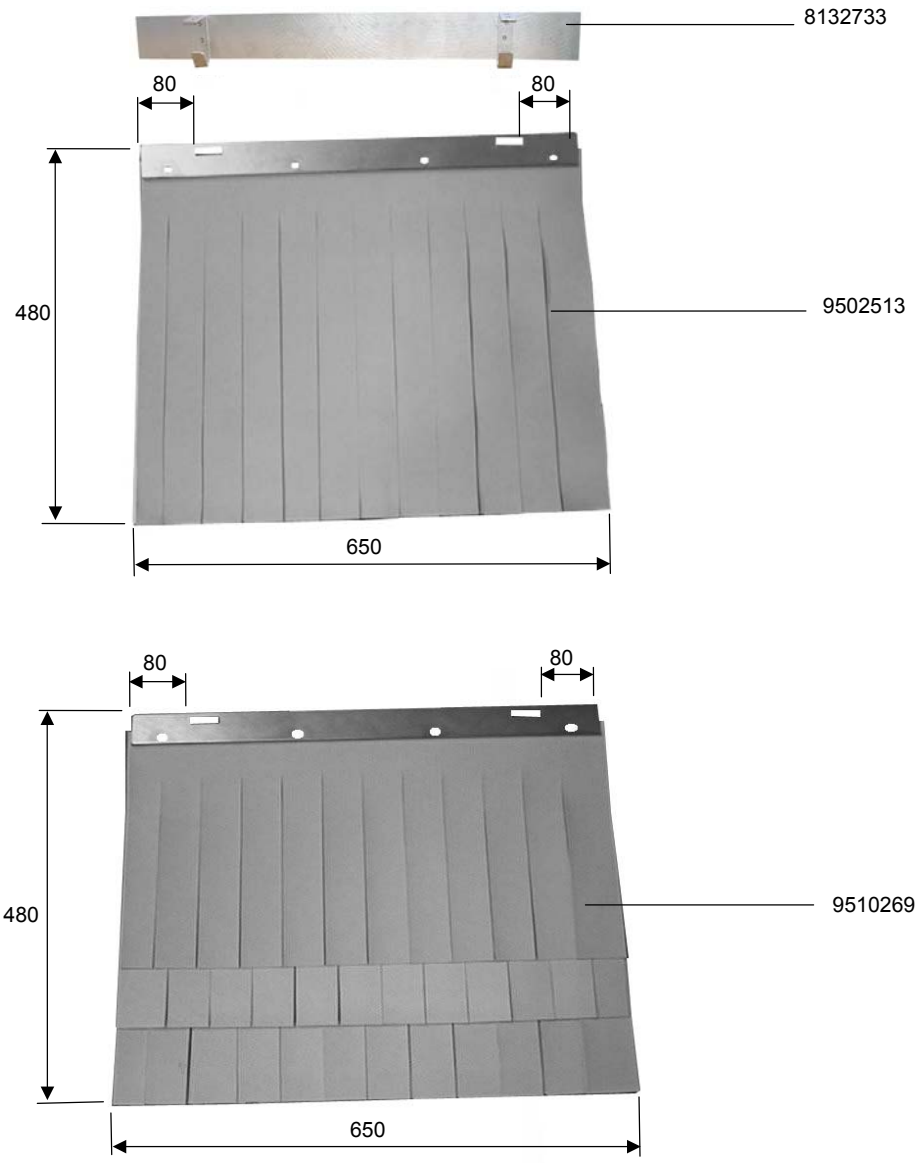
2.1 VORHANG

2.1 CURTAIN

2.1 RIDEAU



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
V	9510269	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
V	9502513	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
	8132733	VORHANGBEFESTIGUNG	CURTAIN FIXATION	FIXATION POUR RIDEAU

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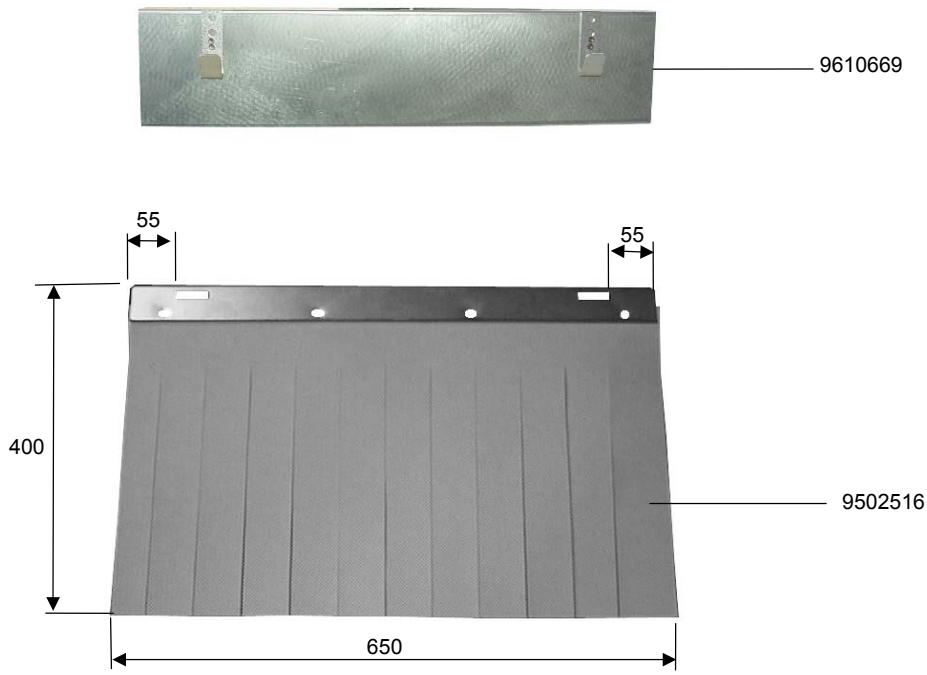
2.2 VORHANG

2.2 CURTAIN

2.2 RIDEAU



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
V	9502516	VORHANG 650X400	CURTAIN 650X400	RIDEAU 650X400
	9610669	VORHANGAUFHÄNGEWINKEL	CURTAIN SUSPENSION ANGLE	ANGLE DE ACCROCHAGE DE RIDEAU

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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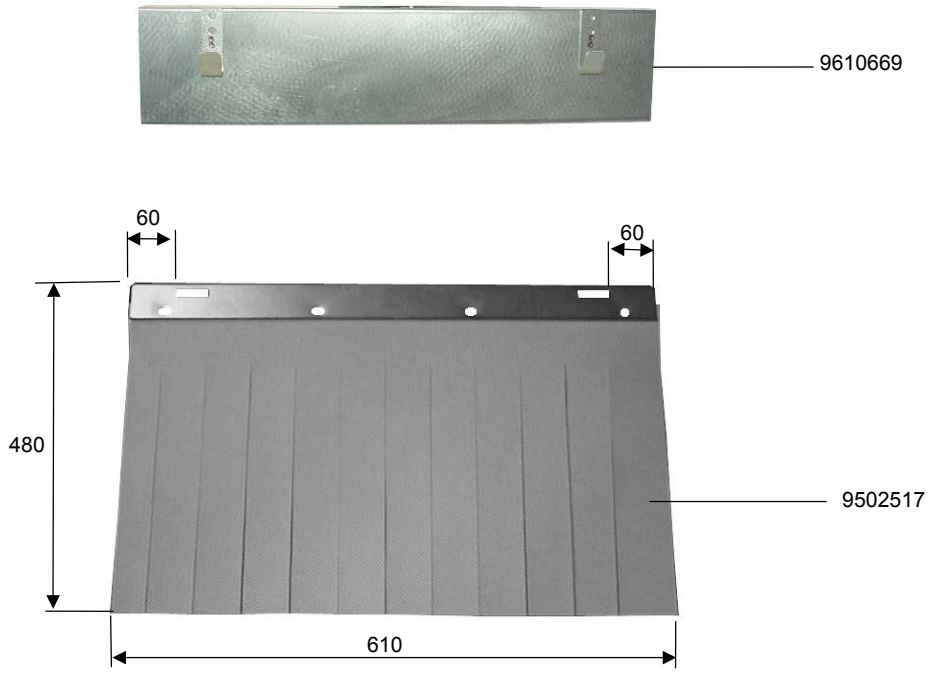
2.3 VORHANG

2.3 CURTAIN

2.3 RIDEAU



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
V	9502517	VORHANG 610X480	CURTAIN 610X480	RIDEAU 610X480
	9610669	VORHANGAUFHÄNGEWINKEL	CURTAIN SUSPENSION ANGLE	ANGLE DE ACCROCHAGE DE RIDEAU

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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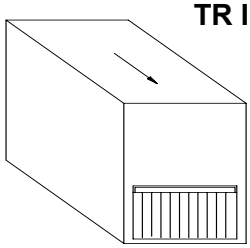
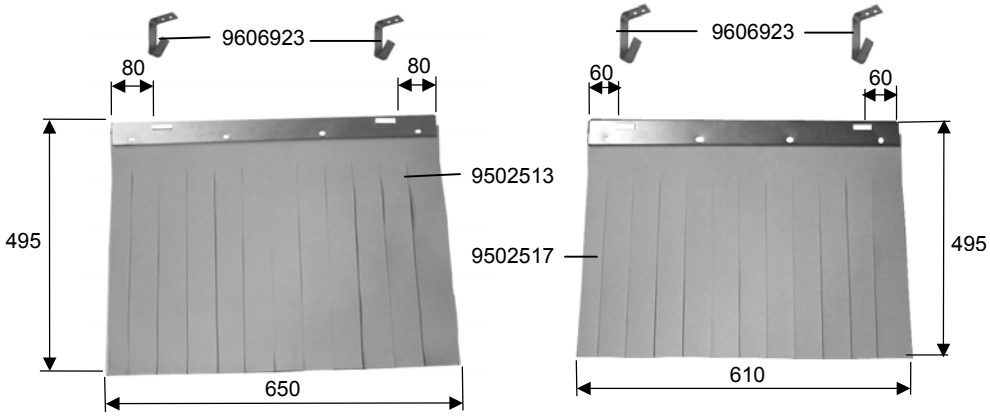
2.4 VORHANG

2.4 CURTAIN

2.4 RIDEAU

TR I-II





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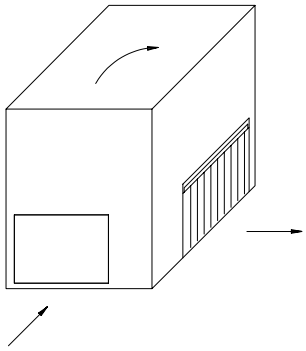

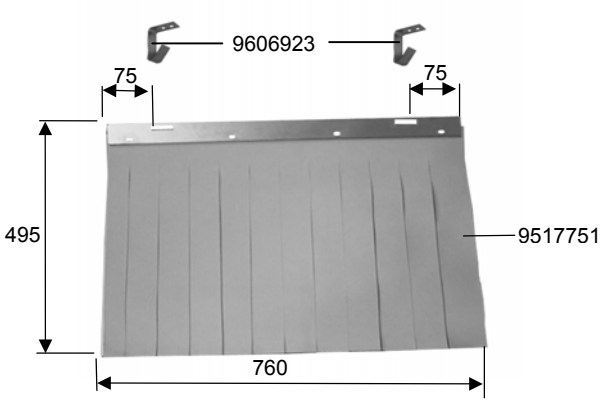

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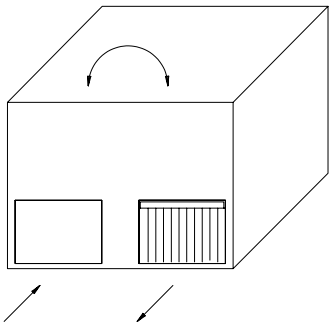

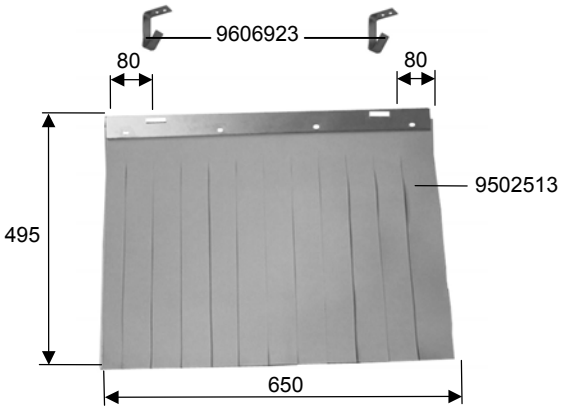

IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
V 9502513	VORHANG B=650X480 A=80	CURTAIN B=650X480 A=80	RIDEAU B=650X480 A=80
V 9502517	VORHANG B=610X480 A=60	CURTAIN B=610X480 A=60	RIDEAU B=610X480 A=60
V 9517751	VORHANG B=770X480 A=75	CURTAIN B=770X480 A=75	RIDEAU B=770X480 A=75
9606923	VORHANGAUFHÄNGEWINKEL	CURTAIN SUSPENSION ANGLE	ANGLE DE ACCROCHAGE DE RIDEAU

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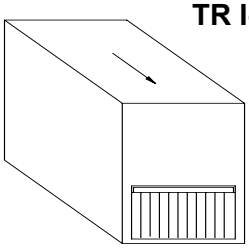
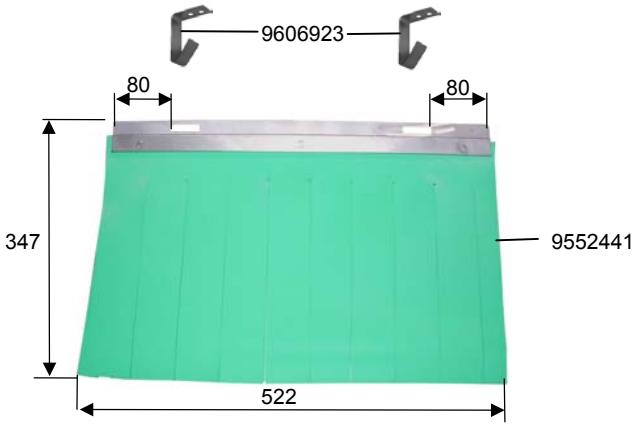
2.4.2 VORHANG

2.4.2 CURTAIN

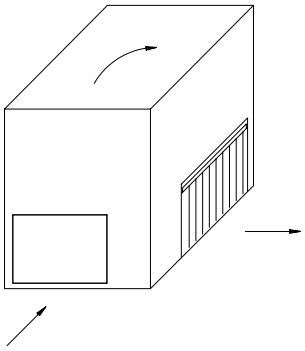
2.4.2 RIDEAU

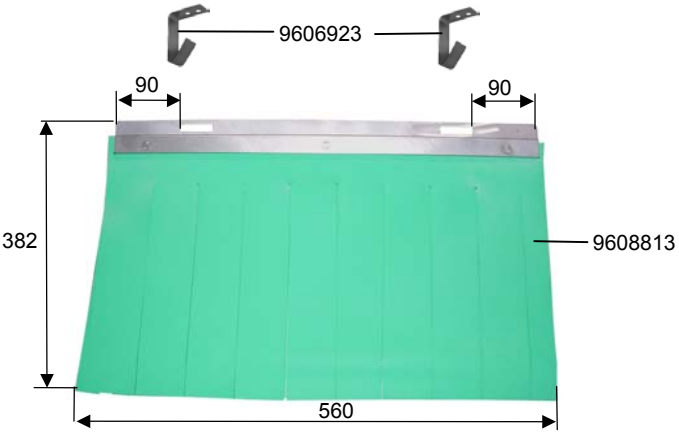
TR I-II





TR III (90°)





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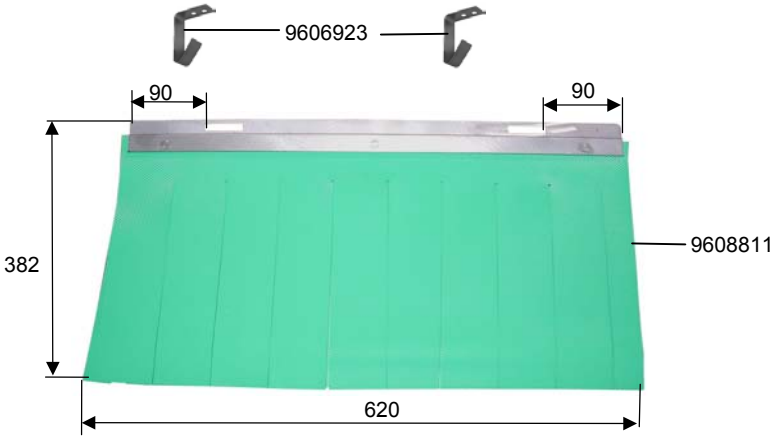

IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	GÜLTIG AB 01.10.2004	VALID FROM 01.10.2004	VALABLE A PARTIR DE 01.10.2004
V 9552441	VORHANG B=522X347 A=80	CURTAIN B=522X347 A=80	RIDEAU B=522X347 A=80
V 9608813	VORHANG B=560X382 A=90	CURTAIN B=560X382 A=90	RIDEAU B=560X382 A=90
9608811	VORHANG B=620X382 A=90	CURTAIN B=620X382 A=90	RIDEAU B=620X382 A=90
9606923	VORHANGAUFHÄNGEWINKEL	CURTAIN SUSPENSION ANGLE	ANGLE DE ACCROCHAGE DE RIDEAU

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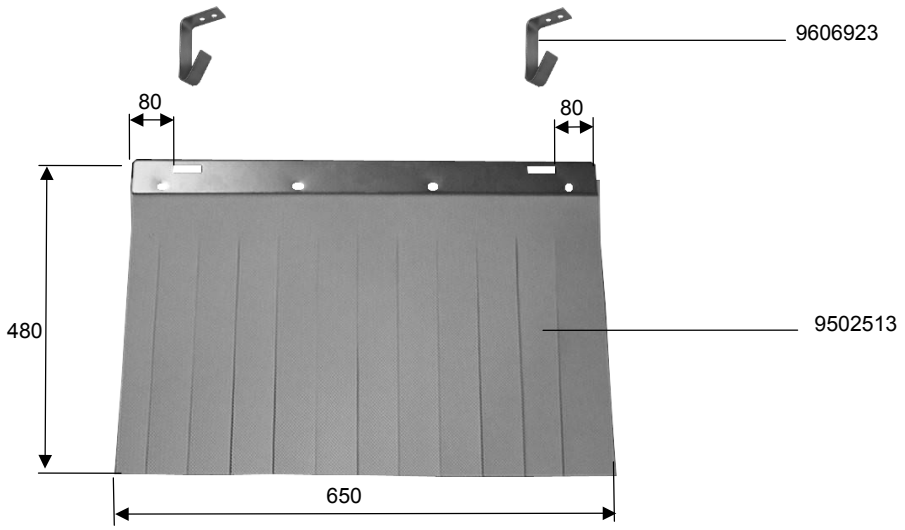
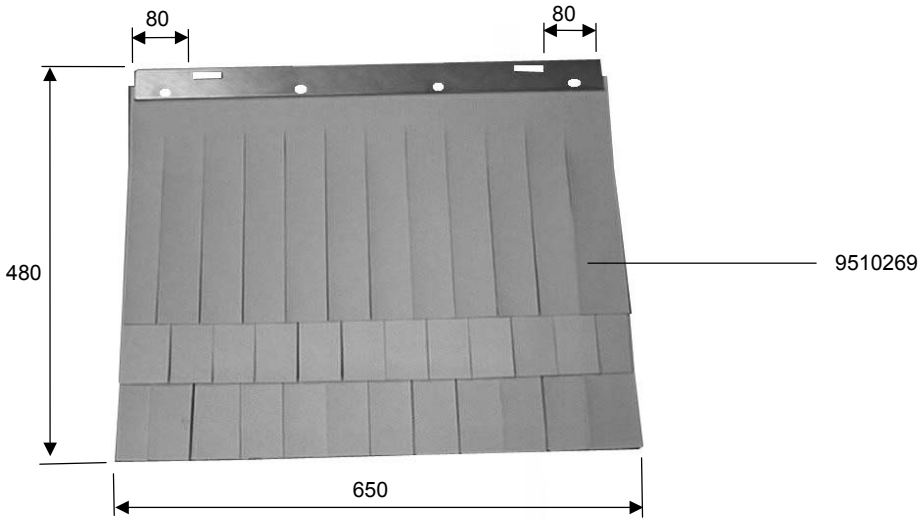
2.5 VORHANG

2.5 CURTAIN

2.5 RIDEAU





IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
V 9510269	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
V 9502513	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
9606923	VORHANGBEFESTIGUNG	CURTAIN FIXATION	FIXATION POUR RIDEAU

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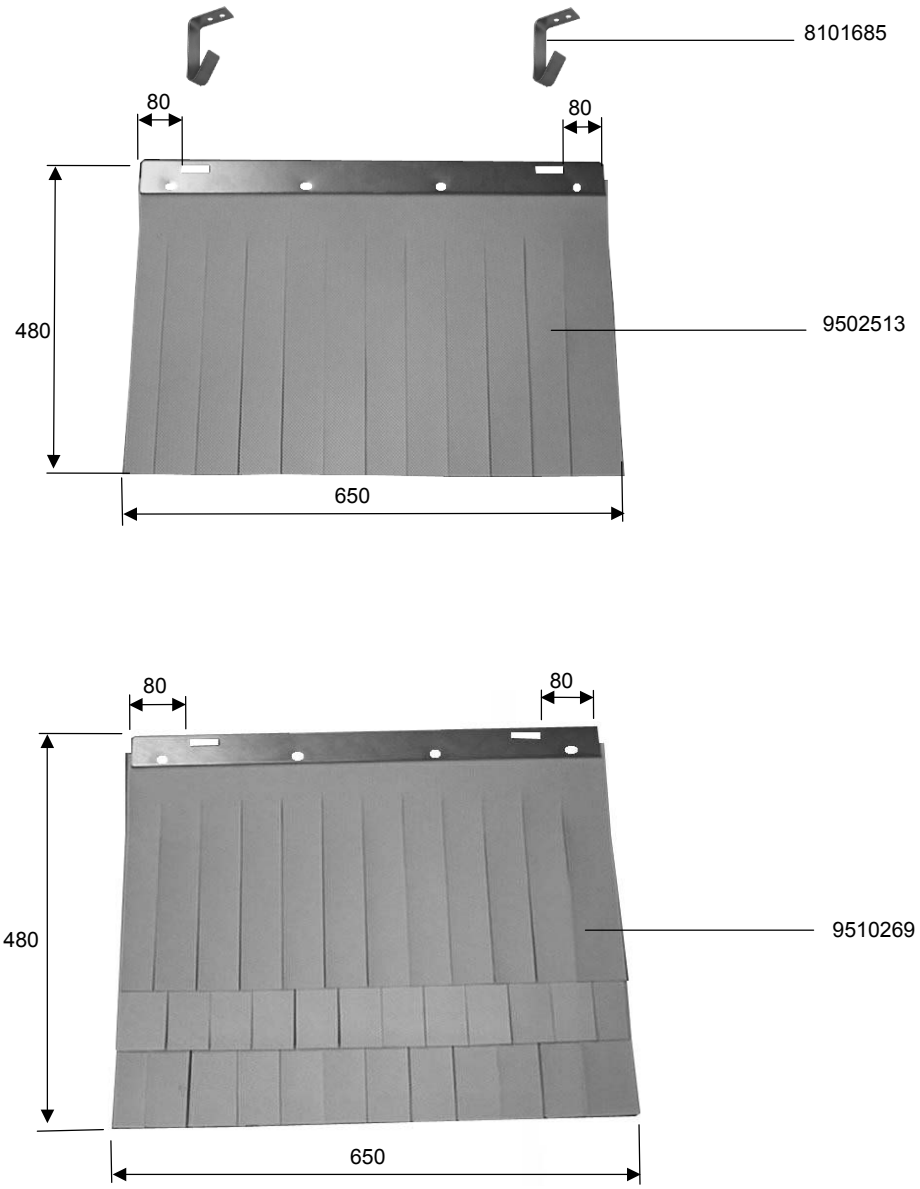
2.6 VORHANG

2.6 CURTAIN

2.6 RIDEAU



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
V	9510269	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
V	9502513	VORHANG 650X480	CURTAIN 650X480	RIDEAU 650X480
	8101685	VORHANGBEFESTIGUNG	CURTAIN FIXATION	FIXATION POUR RIDEAU

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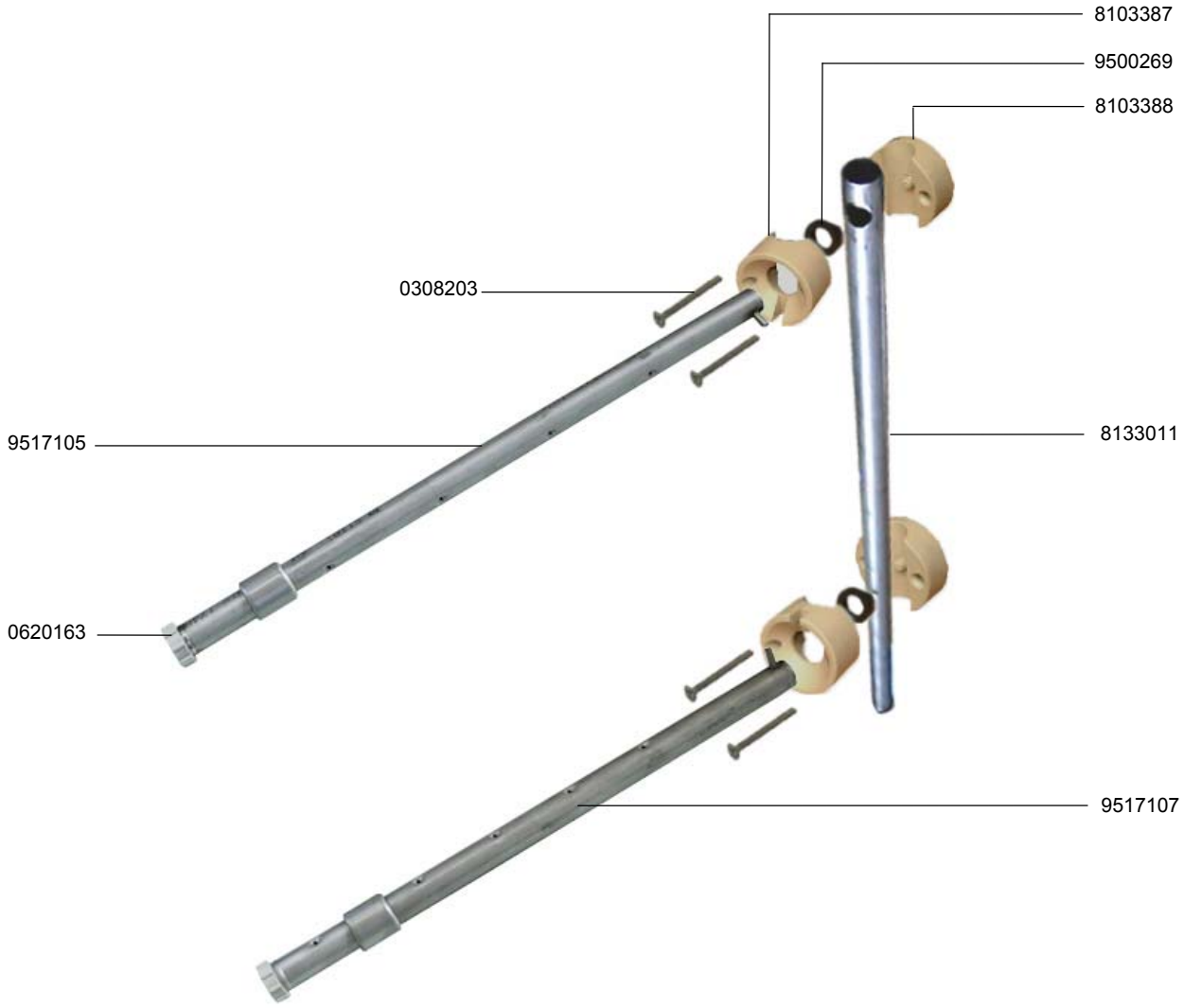
3.1 KV-WASCHSYSTEM

3.1 KV-WASH SYSTEM

3.1 KV-SYSTEME DE LAVAGE



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	9517107	WASCHARM UNTEN KPL.	LOWER WASH ARM CPL.	BRAS DE LAVAGE INF. CPL.
	8133011	STEIGROHR	ASCENDING PIPE	COLONNE DE LEVATION
	0308203	SCHRAUBE M4X35	SCREW M4X35	VIS M4X35
*	8103388	KUPPLUNG RÜCKTEIL	CLUTCH BACK PART	ACCOUPLEMENT ARRIERE
*	9500269	DICHTUNG	PACKING	JOINT
*	8103387	KUPPLUNG VORDERTEIL	CLUTCH FRONT PART	ACCOUPLEMENT FRONTALE
	9517105	WASCHARM OBEN KPL.	UPPER WASH ARM CPL.	BRAS DE LAVAGE SUP. CPL.
*	0620163	VERSCHLUSSKAPPE K163	CLOSING CAP K163	CAPUCHON K163

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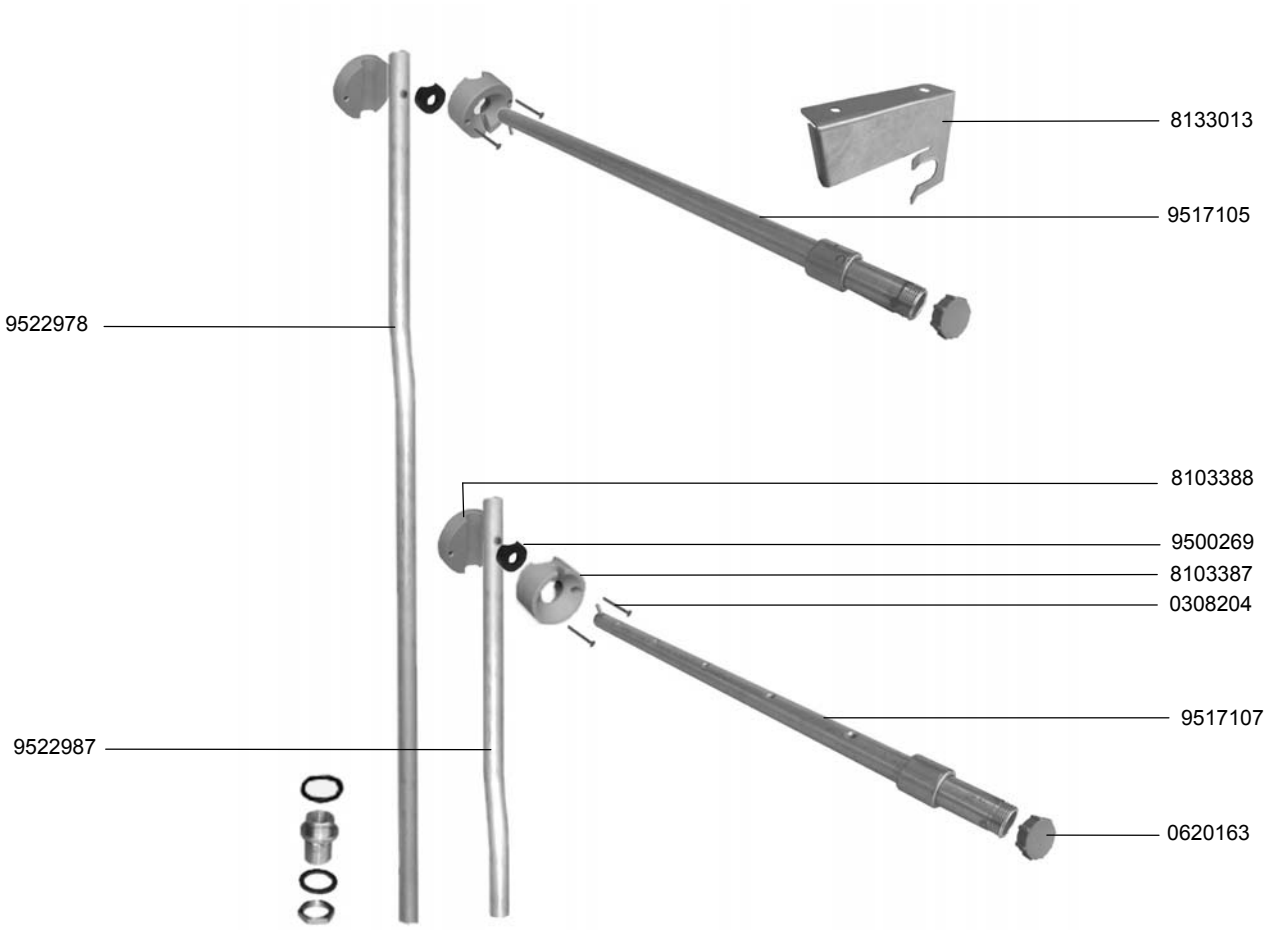
3.2 CSS 750 / V 750 WASCHSYSTEM

3.2 CSS 750 / V 750 WASH SYSTEM

3.2 CSS 750 / V 750 SYSTEM DE LAVAGE



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
*	0620163	KAPPE	CAP	CAPOUCHON
	9517107	WASCHARM UNTEN KPL.	LOWER WASH ARM CPL.	BRAS DE LAVAGE INF. CPL.
	0308204	SCHRAUBE M4X30	SCREW M4X30	VIS M4X30
*	8103387	KUPPLUNG VORDERTEIL	CLUTCH FRONT PART	ACCOUPLEMENT FRONTALE
*	9500269	DICHTUNG	PACKING	JOINT
*	8103388	KUPPLUNG RÜCKTEIL	CLUTCH BACK PART.	ACCOUPLEMENT ARRIERE
	9517105	WASCHARM OBEN KPL.	UPPER WASH ARM CPL.	BRAS DE LAVAGE SUP. CPL.
	8133013	HALTERUNG	SUPPORT	SUPPORT
	9522978	STEIGROHR	ASCENDING PIPE	COLONNE DE LEVATION
	9522987	STEIGROHR	ASCENDING PIPE	COLONNE DE LEVATION

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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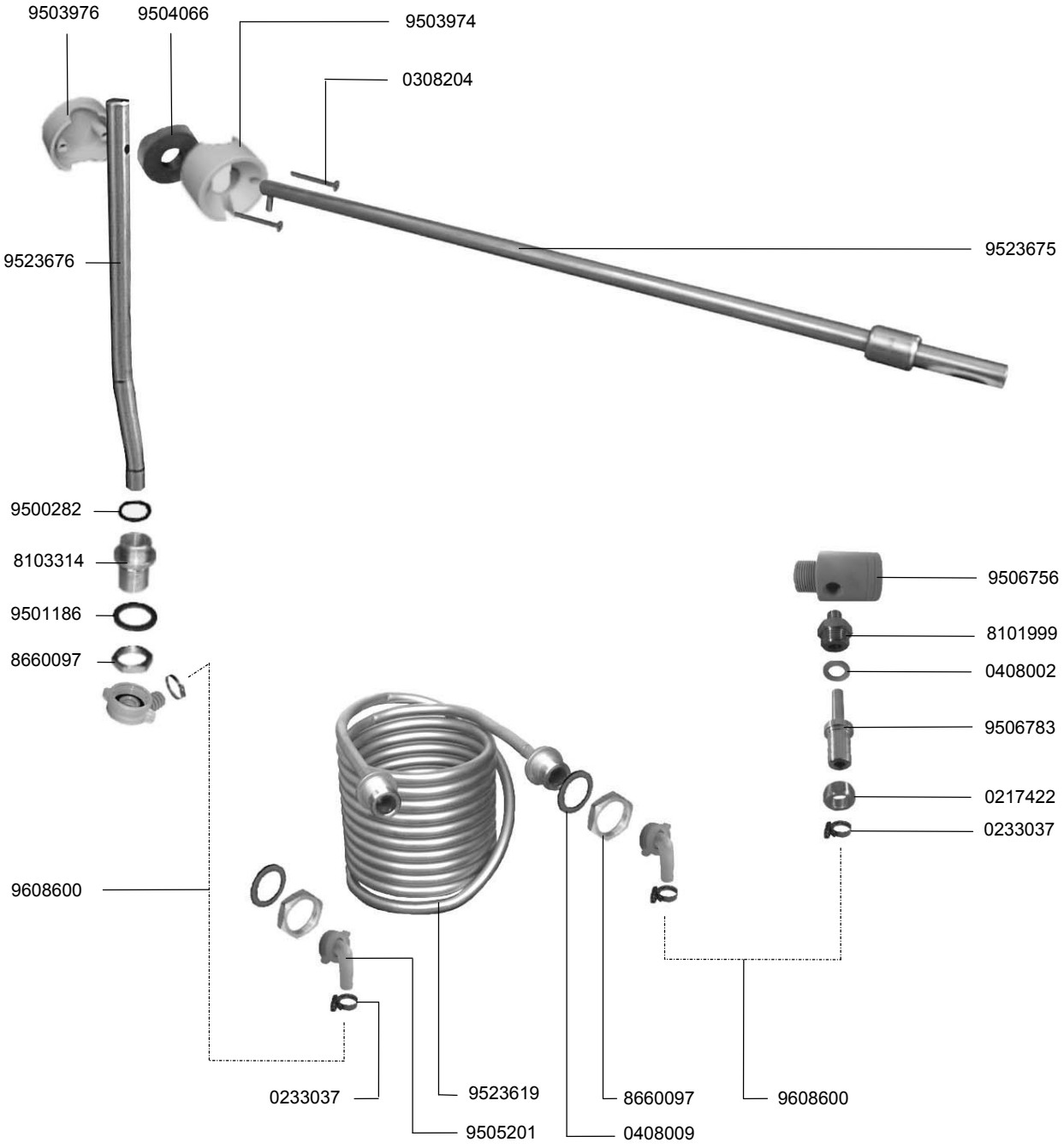
3.2.1 CSS TOP-SPÜLARM

3.2.1 CSS TOP-RINSE ARM

3.2.1 CSS TOP-BRAS DE LAVAGE



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3.2.1 CSS TOP-SPÜLARM

3.2.1 CSS TOP-RINSE ARM

3.2.1 CSS TOP-BRAS DE LAVAGE

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	0233037	SCHLAUCHKLEMME	HOSE WIRE CLAMP	COLLIER DE SERRAGE
	0217422	ÜBERWURFMUTTER	SLEEVE NUT	ECROU RACCORD
	9506783	BLENDE	STOP	OBTURATEUR
	0408002	DICHTUNG	PACKING	JOINT
	8101999	ADAPTER	ADAPTER	ADAPTEUR
	9506756	VERBINDUNGSTEIL	CONNECTION PART	PIECE DE CONNEXION
	9523675	SPÜLARM CSS BYPASS	FINAL RINSE ARM CSS	BRAS DE RINCAGE FINAL CSS
	0308204	SCHRAUBE M4X30	SCREW M4X30	VIS M4X30
*	9503974	KUPPLUNG VORDERTEIL	CLUTCH FRONT PART	ACCOUPLEMENT FRONTALE
*	9504066	DICHTUNG	PACKING	JOINT
*	9503976	KUPPLUNG RÜCKTEIL	CLUTCH BACK PART	ACCOUPLEMENT ARRIERE
	9523676	STEIGROHR	ASCENDING PIPE	COLONNE DE LEVATION
*	9500282	O-RING	O-RING	BAGUE
	8103314	TANKDURCHFÜRUNG	TANKTHROUGH-LEAD	TRAVERSEE DU BAC
	9501186	DICHTUNG	PACKING	JOINT
	8660097	MUTTER	NUT	ECROU
	9608600	SCHLAUCH ½“	HOSE ½“	TUYAU ½“
	0233037	SCHLAUCHKLEMME	HOSE WIRE CLAMP	COLLIER DE SERRAGE
	9505201	ANSCHLUSSWINKEL	CONNECTION ANGLE	ANGLE DE CONNEXION
	9523619	WÄRMETAUSCHER	HEAT EXCHANGER	ECHANGEUR DE CHALEUR
	0408009	DICHTUNG	PACKING	JOINT

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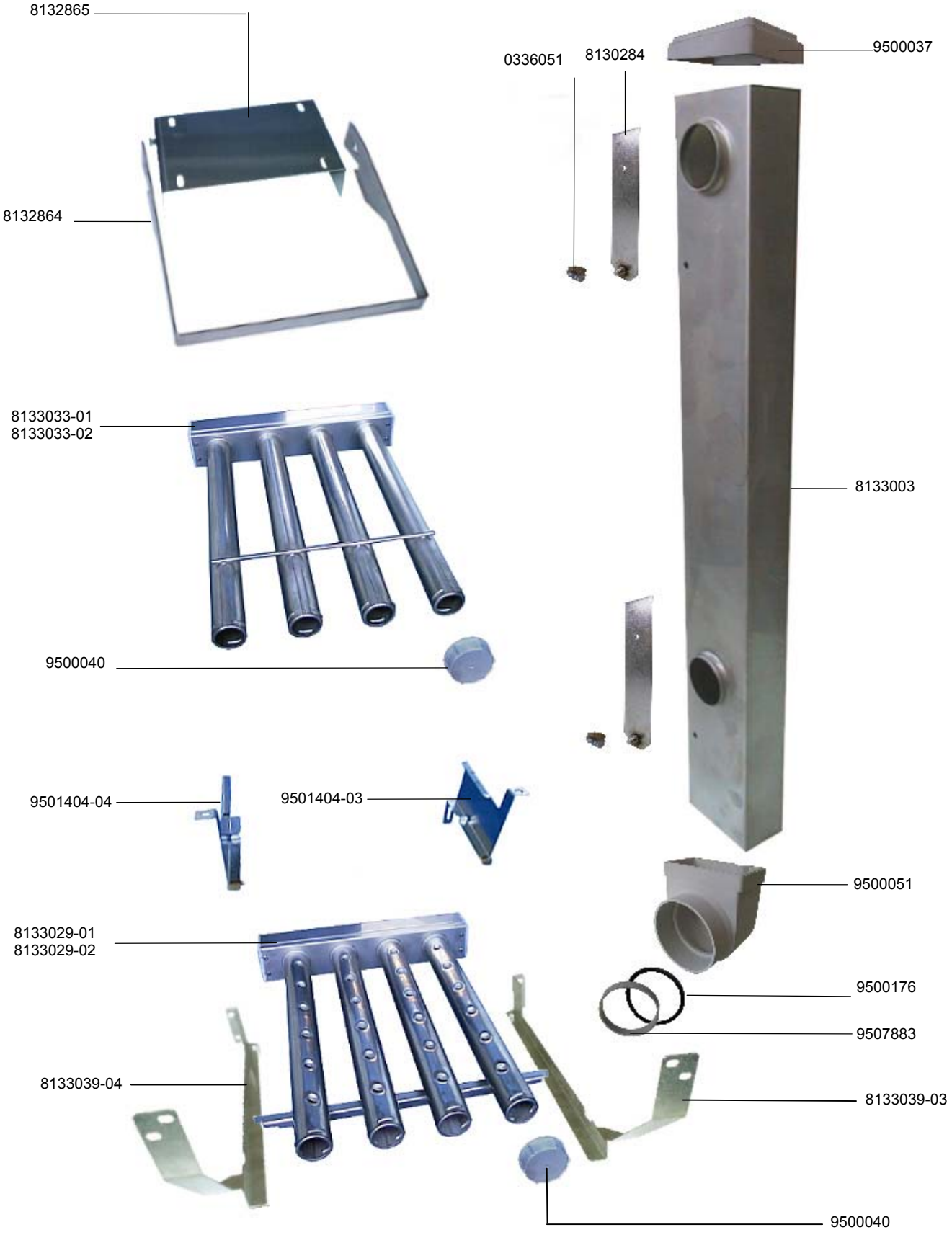
3.4.1 VA/HWZ-WASCHSYSTEM

3.4.1 VA/HWZ -WASH SYSTEM

3.4.1 SYSTEME DE LAVAGE- VA/HWZ



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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3.4.1 VA/HWZ-WASCHSYSTEM

3.4.1 VA/HWZ -WASH SYSTEM

3.4.1 SYSTEME DE LAVAGE- VA/HWZ

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	9507883	STÜTZRING	SUPPORT RING	BAGUE DE SUPPORT
*	9500176	O-RING	O-RING	O-RING
	9500051	STEIGROHRANSCHLUSS	ASCENDING PIPE CONNECTION	CONNEXION POUR COLONNE DE LEVATION
	8133003	STEIGROHR	ASCENDING PIPE	COLONNE DE LEVATION
	9500037	STEIGROHRDECKEL	LID	COUVERCLE
	8130284	DROSSELBLECH	THROTTLE PLATE	TOLE DE D'ETRANGLEMENT
	0336051	HUTMUTTER M6	CAP NUT M6	ECROU BORGNE M6
	8132865	BEFESTIGUNGSPLATTE	FIXATION PLATE	PLAQUE DE FIXATION
	8132864	BÜGEL	SUPPORT	SUPPORT
	8133033-01	WASCHSYSTEM OBEN KPL. L-R	UPPER WASHSYSTEM CPL. L-R	SYSTEME DE LAVAGE SUP. CPL.G-D
	8133033-02	WASCHSYSTEM OBEN KPL. R-L	UPPER WASHSYSTEMCPL. R-L	SYSTEME DE LAVAGE SUP. CPL.D-G
*	9500040	VERSCHLUSSKAPPE	CLOSING CAP	CAPOUCHON
	9501404-03	AUFLAGE LINKS	SUPPORT LEFT	SUPPORT GAUCHE
	9501404-04	AUFLAGE RECHTS	SUPPORT RIGHT	SUPPORT DROITE
	8133029-01	WASCHSYSTEM UNTEN KPL. L-R	LOWER WASHSYSTEM CPL. L-R	SYSTEME DE LAVAGE INF. CPL G-D
	8133029-02	WASCHSYSTEM UNTEN KPL. R-L	LOWER WASHSYSTEM CPL. R-L	SYSTEME DE LAVAGE INF. CPL D-G
	8133039-03	WASCHSYSTEMAUFLAGE RECHTS UNTEN	SUPPORT OF WASH SYSTEM BOTTOM - RIGHT HAND SIDE	SUPPORT DU SYSTEME DE LAVAGE EN BAS - A DROITE
	8133039-04	WASCHSYSTEMAUFLAGE LINKS UNTEN	SUPPORT OF WASH SYSTEM BOTTOM - LEFT HAND SIDE	SUPPORT DU SYSTEME DE LAVAGE EN BAS - A GAUCHE

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3.4.5 VA/HWZ-WASCHSYSTEM

3.4.5 VA/HWZ -WASH SYSTEM

3.4.5 SYSTEME DE LAVAGE- VA/HWZ

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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3.4.5 VA/HWZ-WASCHSYSTEM

3.4.5 VA/HWZ -WASH SYSTEM

3.4.5 SYSTEME DE LAVAGE- VA/HWZ

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
*	9533755	VERSCHLUSSKAPPE	CLOSING CAP	CAPOUCHON
	9542781	WASCHARM KPL.	WASHARM CPL.	BRAS DE LAVAGE CPL.
	0302001	SKT.SCHRAUBE M6X16	HEXAGONE SCREW M6X16	VIS A 6 PANS M6X16
	9542784-01	VERTEILERROHR L-R	DISTRIBUTION PIPE L-R	TUYAU DE DISTRIBUTION L-R
	9542784-02	VERTEILERROHR R-L	DISTRIBUTION PIPE R-L	TUYAU DE DISTRIBUTION R-L
	0233048	SCHLAUCHKLEMME 20-32	HOSE WIRE CLAMP 20-32	COLLIER DE SERRAGE 20-32
	0650010	GUMMITUILLE	RUBBER BUSHING	DOUILLE EN CAOUTCHOUC
	9510508	STEIGROHR	ASCENDING PIPE	COLONNE DE LEVATION
	9549556	DROSSELBLECH	THROTTLE PLATE	TOLE DE D'ETRANGLEMENT
	0336051	HUTMUTTER	CAP NUT	ECROU BORGNE

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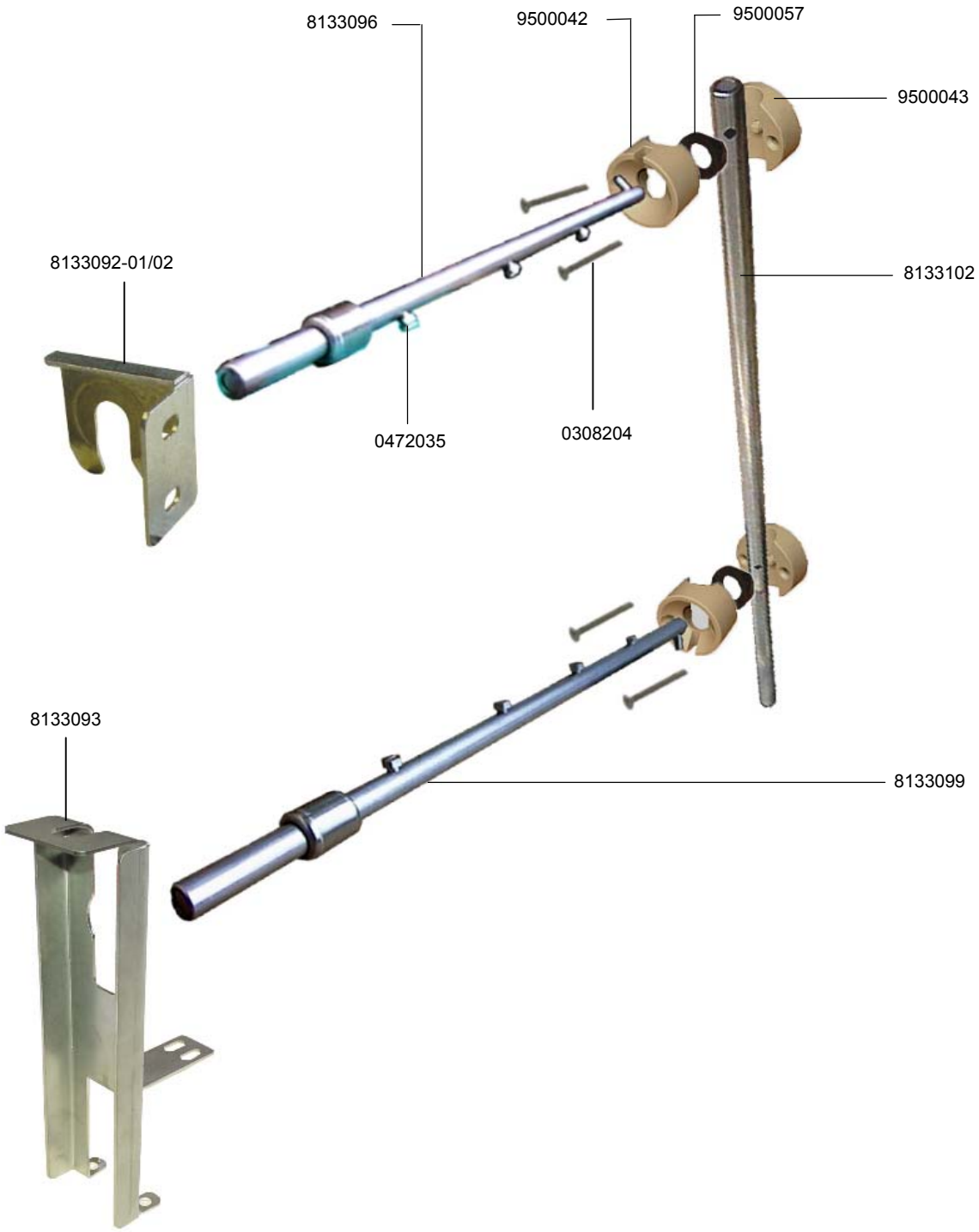
3.5 PUMPENKLARSPÜLUNG

3.5 PUMP FINAL RINSE

3.5 RINCAGE FINAL A POMPE



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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3.5 PUMPENKLARSPÜLUNG

3.5 PUMP FINAL RINSE

3.5 RINCAGE FINAL A POMPE

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	8133099	WASCHARM UNTEN KPL.	LOWER WASH ARM CPL.	BRAS DE LAVAGE INF. CPL.
	8133102	STEIGROHR	ASCENDING PIPE	COLONNE DE LEVATION
	0308204	SCHRAUBE M4X30	SCREW M4X30	VIS M4X30
*	9500043	KUPPLUNG RÜCKTEIL	CLUTCH BACK PART	ACCOUPLEMENT ARRIERE
*	9500057	DICHTUNG	PACKING	JOINT
*	9500042	KUPPLUNG VORDERTEIL	CLUTCH FRONT PART	ACCOUPLEMENT FRONTALE
	8133096	WASCHARM OBEN KPL.	UPPER WASH ARM CPL.	BRAS DE LAVAGE SUP. CPL.
*	0472035	DÜSE	NOZZLE	GICLEUR
	8133092-01	HALTERUNG L-R	FIXING DEVICE L-R	FIXATION G-D
	8133092-02	HALTERUNG R-L	FIXING DEVICE R-L	FIXATION D-G
	8133093	HALTERUNG UNTEN	FIXING DEVICE BOTTOM	FIXATION BAS

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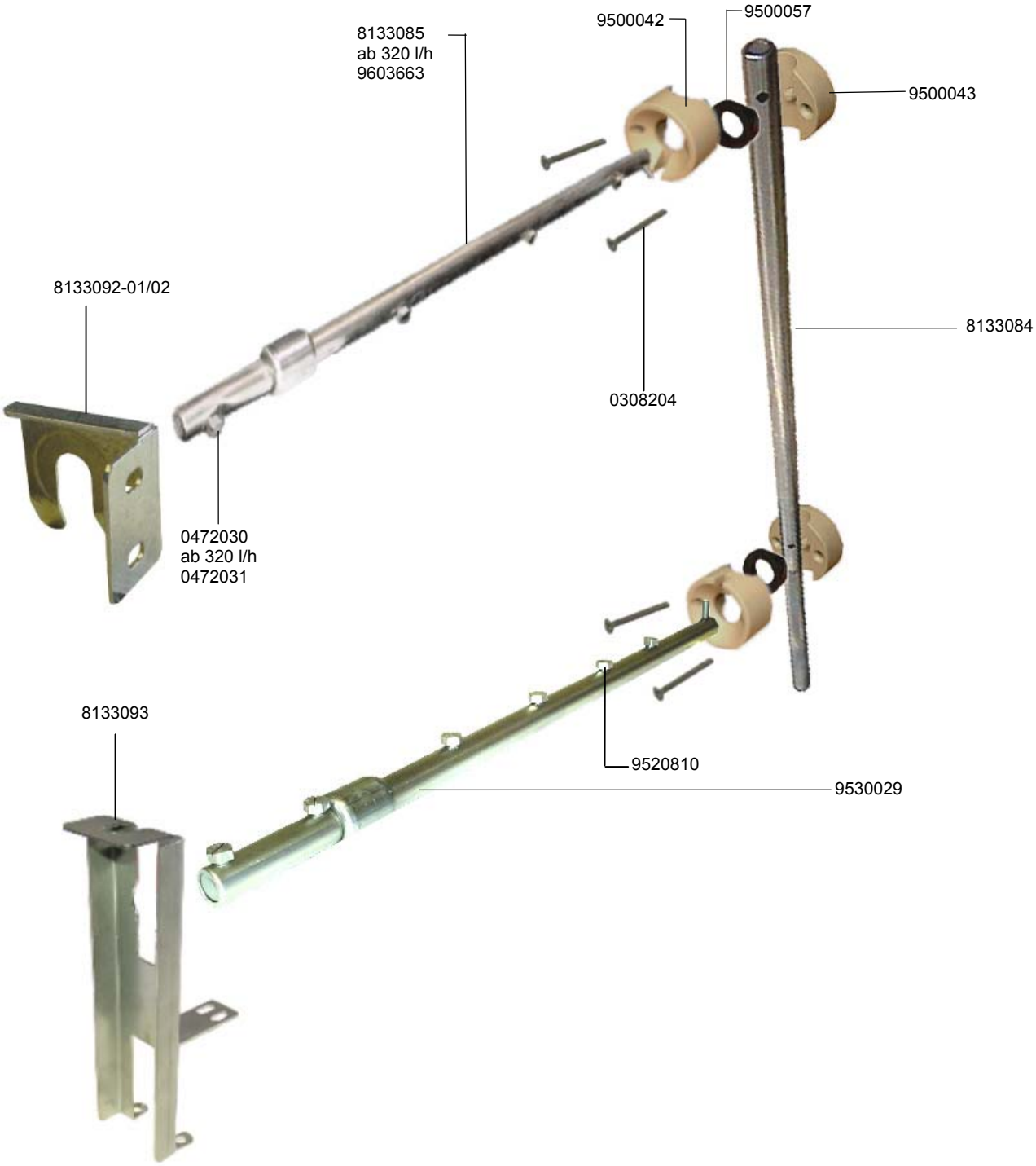
3.6.1 FRISCHWASSERKLARSPÜLUNG

3.6.1 FRESH WATER FINAL RINSE

3.6.1 RINCAGE FINAL A L'EAU CLAIRE



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3.6.1 FRISCHWASSERKLARSPÜLUNG

3.6.1 FRESH WATER FINAL RINSE

3.6.1 RINCAGE FINAL A L'EAU CLAIRE

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	9530029	WASCHARM UNTEN KPL.	LOWER WASH ARM CPL.	BRAS DE LAVAGE INF. CPL.
	9520810	DÜSE	NOZZLE	GICLEUR INF.
*	0472030	FLACHSTRAHLDÜSE	FLAT JET NOZZLE	GICLEUR A JET PLAIN
	0472031	FLACHSTRAHLDÜSE **AB 320 L/H**	FLAT JET NOZZLE **EX 320 L/H**	GICLEUR A JET PLAIN **DES 320 L/H**
	0308204	SCHRAUBE M4X30	SCREW M4X30	VIS M4X30
	8133084	STEIGROHR	ASCENDING PIPE	COLONNE DE LEVATION
*	9500043	KUPPLUNG RÜCKTEIL	CLUTCH BACK PART	ACCOUPLEMENT ARRIERE
*	9500057	DICHTUNG	PACKING	JOINT
*	9500042	KUPPLUNG VORDERTEIL	CLUTCH FRONT PART	ACCOUPLEMENT FRONTALE
	8133085	WASCHARM OBEN KPL	UPPER WASH ARM CPL.	BRAS DE LAVAGE SUP. CPL.
	9603663	WASCHARM OBEN KPL **AB 320 L/H**	UPPER WASH ARM CPL. **EX 320 L/H**	BRAS DE LAVAGE SUP. CPL. **EX 320 L/H**
	8133092-01	HALTERUNG L-R	FIXING DEVICE L-R	FIXATION G-D
	8133092-02	HALTERUNG R-L	FIXING DEVICE R-L	FIXATION D-G
	8133093	HALTERUNG UNTEN	FIXING DEVICE BOTTOM	FIXATION BAS

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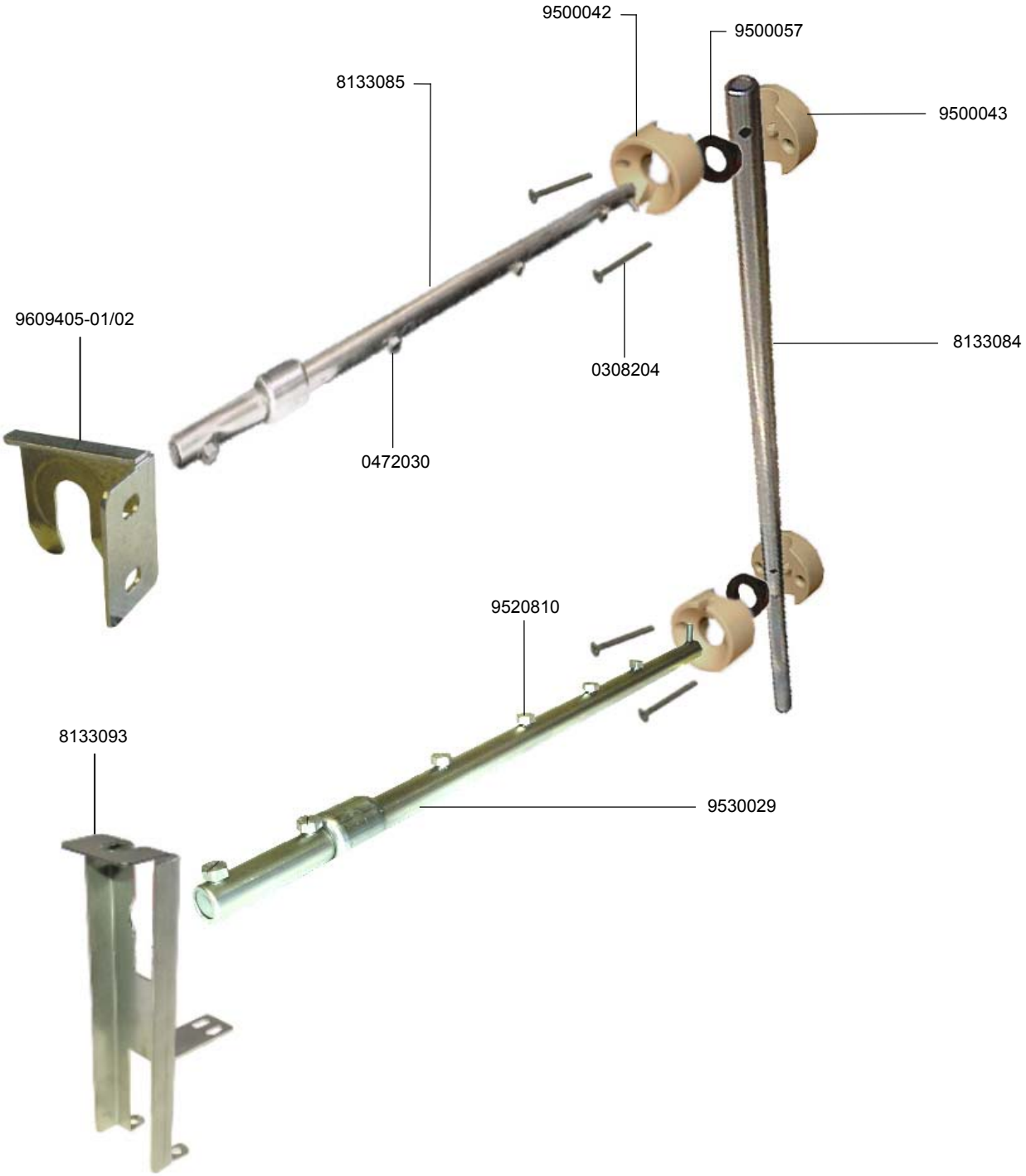
3.7 DEMI-KLARSPÜLUNG

3.7 DEMI- FINAL RINSE

3.7 RINCAGE FINAL-DEMI



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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3.7 DEMI-KLARSPÜLUNG

3.7 DEMI- FINAL RINSE

3.7 RINCAGE FINAL-DEMI

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	9530029	WASCHARM UNTEN KPL.	LOWER WASH ARM CPL.	BRAS DE LAVAGE INF. CPL.
	8133084	STEIGROHR	ASCENDING PIPE	COLONNE DE LEVATION
	0308204	SCHRAUBE M4X30	SCREW M4X30	VIS M4X30
*	9500043	KUPPLUNG RÜCKTEIL	CLUTCH BACK PART	ACCOUPLEMENT ARRIERE
*	9500057	DICHTUNG	PACKING	JOINT
*	9500042	KUPPLUNG VORDERTEIL	CLUTCH FRONT PART	ACCOUPLEMENT FRONTALE
	8133085	WASCHARM OBEN KPL	UPPER WASH ARM CPL.	BRAS DE LAVAGE SUP. CPL.
*	9520810	DÜSE	NOZZLE	GICLEUR
*	0472030	FLACHSTRAHLDÜSE	FLAT JET NOZZLE	GICLEUR A JET PLAIN
	9609405-01	HALTERUNG L-R	FIXING DEVICE L-R	FIXATION G-D
	9609405-02	HALTERUNG R-L	FIXING DEVICE R-L	FIXATION D-G
	8133093	HALTERUNG UNTEN	FIXING DEVICE BOTTOM	FIXATION BAS

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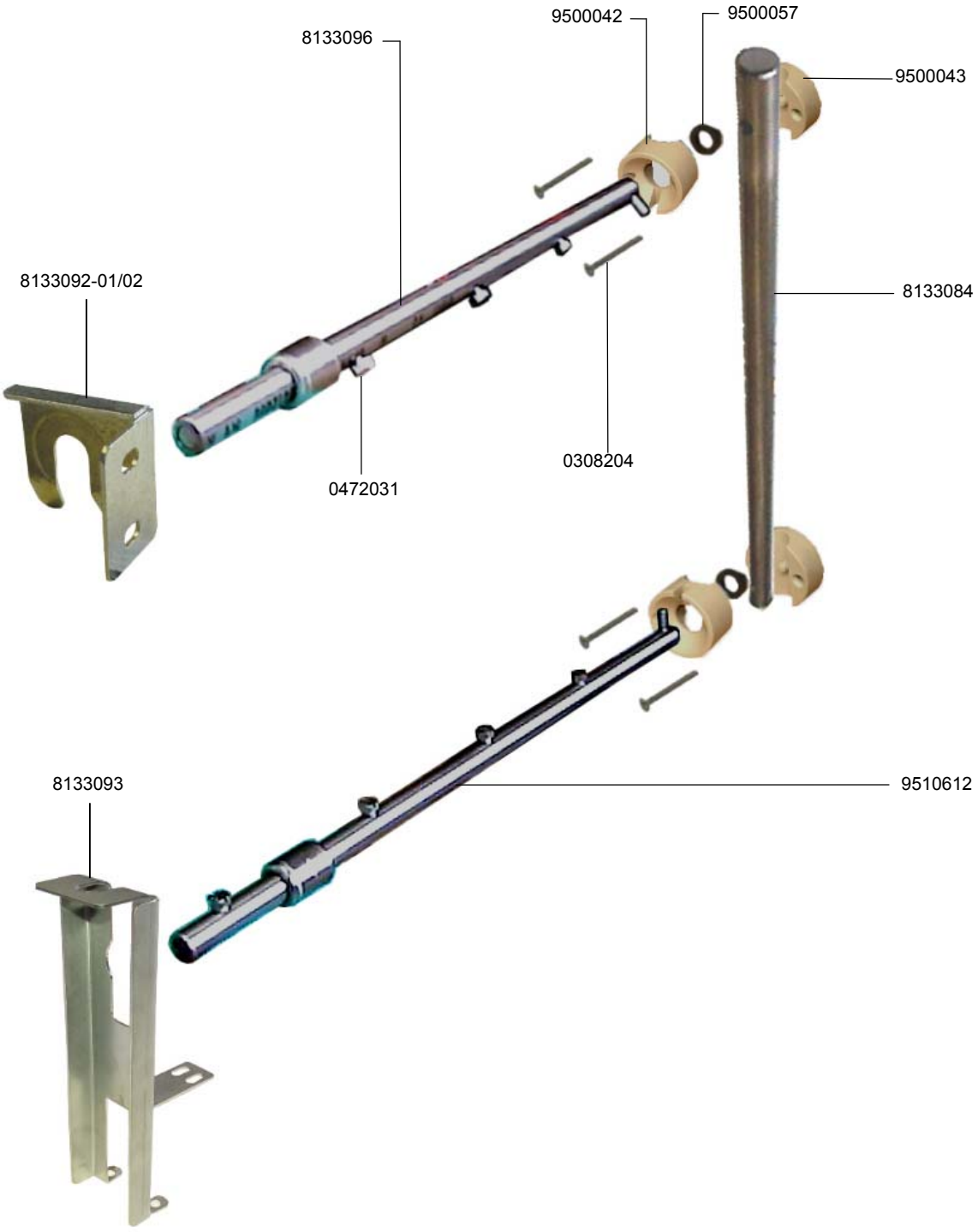
3.8 PI-KLARSPÜLUNG

3.8 PI- FINAL RINSE

3.8 RINCAGE FINAL-PI



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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3.8 PI-KLARSPÜLUNG

3.8 PI- FINAL RINSE

3.8 RINCAGE FINAL-PI

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	9510612	WASCHARM UNTEN KPL.	LOWER WASH ARM CPL.	BRAS DE LAVAGE INF. CPL.
	8133084	STEIGROHR	ASCENDING PIPE	COLONNE DE LEVATION
	0308204	SCHRAUBE M4X30	SCREW M4X30	VIS M4X30
*	9500043	KUPPLUNG RÜCKTEIL	CLUTCH BACK PART	ACCOUPLEMENT ARRIERE
*	9500057	DICHTUNG	PACKING	JOINT
*	9500042	KUPPLUNG VORDERTEIL	CLUTCH FRONT PART	ACCOUPLEMENT FRONTALE
	8133096	WASCHARM OBEN KPL	UPPER WASH ARM CPL.	BRAS DE LAVAGE SUP. CPL.
*	0472031	DÜSE	NOZZLE	GICLEUR
	8133092-01	HALTERUNG L-R	FIXING DEVICE L-R	FIXATION G-D
	8133092-02	HALTERUNG R-L	FIXING DEVICE R-L	FIXATION D-G
	8133093	HALTERUNG UNTEN	FIXING DEVICE BOTTOM	FIXATION BAS

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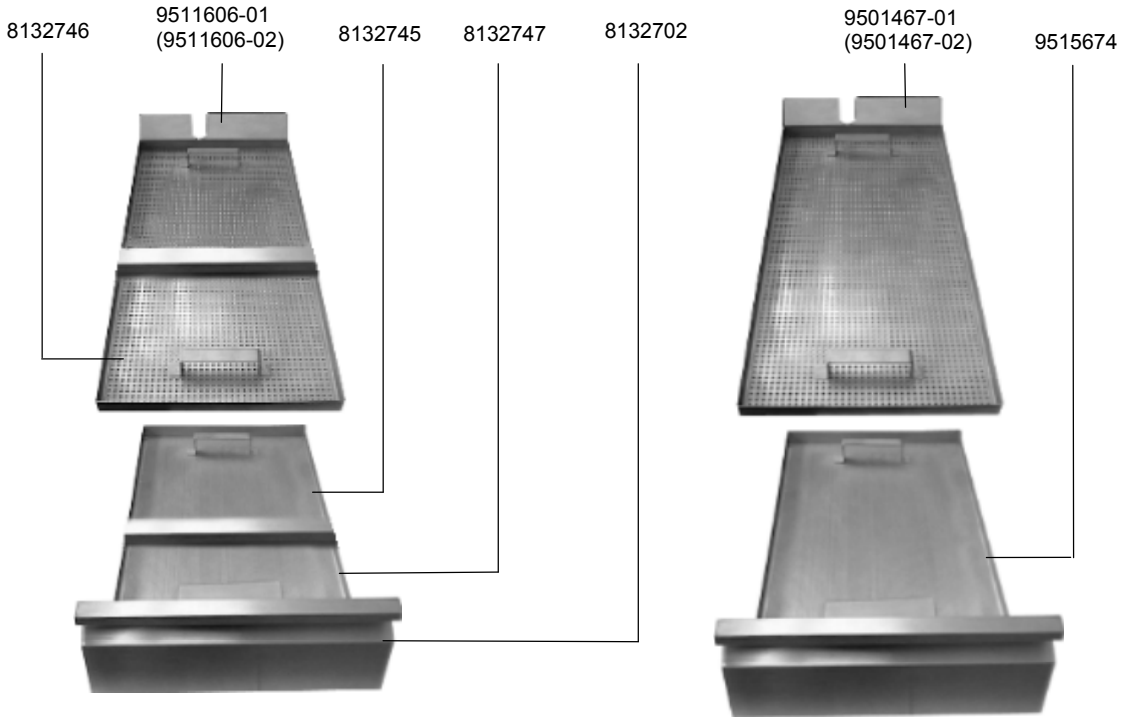
4.1 TANKABDECKSIEB-KV

4.1 TANK COVERING SIEVE-KV

4.1 TAMIS DE RECOUVREMENT DE BAC-KV



IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
9515674	TANKABDECKSIEB FEIN	TANK COVERING SIEVE	TAMIS DE RECOUVREMENT DE BAC
9501467-01	TANKABDECKSIEB GROB L-R	TANK COVERING SIEVE L-R	TAMIS DE RECOUVREMENT DE BAC G-D
9501467-02	TANKABDECKSIEB GROB R-L NICHT ABGEBILDET	TANK COVERING SIEVE R-L NOT DISPLAYED	TAMIS DE RECOUVREMENT DE BAC D-G PAS D'IMAGE
8132702	BLENDE	FRONT SHEET	TOLE FRONTALE
8132747	TANKABDECKSIEB FEIN	TANK COVERING SIEVE	TAMIS DE RECOUVREMENT DE BAC
8132745	TANKABDECKSIEB FEIN	TANK COVERING SIEVE	TAMIS DE RECOUVREMENT DE BAC
9511606-01	TANKABDECKSIEB FEIN L-R	TANK COVERING SIEVE L-R	TAMIS DE RECOUVREMENT DE BAC G-D
9511606-02	TANKABDECKSIEB FEIN R-L NICHT ABGEBILDET	TANK COVERING SIEVE R-L NOT DISPLAYED	TAMIS DE RECOUVREMENT DE BAC D-G PAS D'IMAGE
8132746	TANKABDECKSIEB GROB	TANK COVERING SIEVE	TAMIS DE RECOUVREMENT DE BAC

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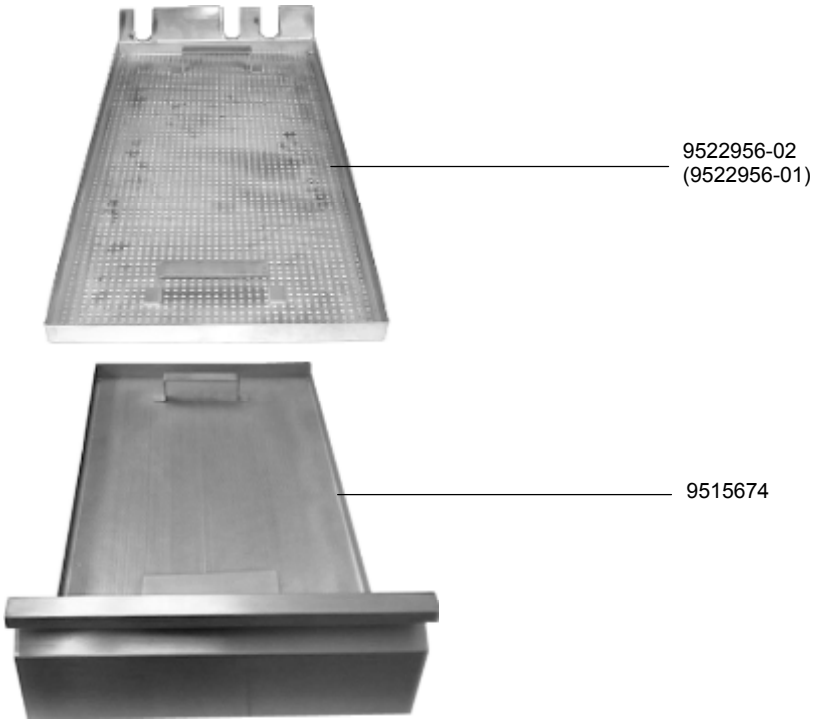
4.2 TANKABDECKSIEB-CSS

4.2 TANK COVERING SIEVE-CSS

4.2 TAMIS DE RECOUVREMENT DE BAC-CSS



IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
9515674	TANKABDECKSIEB FEIN	TANK COVERING SIEVE	TAMIS DE RECOUVREMENT DE BAC
9522956-01	TANKABDECKSIEB GROB L-R NICHT ABGEBILDET	TANK COVERING SIEVE L-R NOT DISPLAYED	TAMIS DE RECOUVREMENT DE BAC G-D PAS D'IMAGE
9522956-02	TANKABDECKSIEB GROB R-L	TANK COVERING SIEVE R-L	TAMIS DE RECOUVREMENT DE BAC D-G

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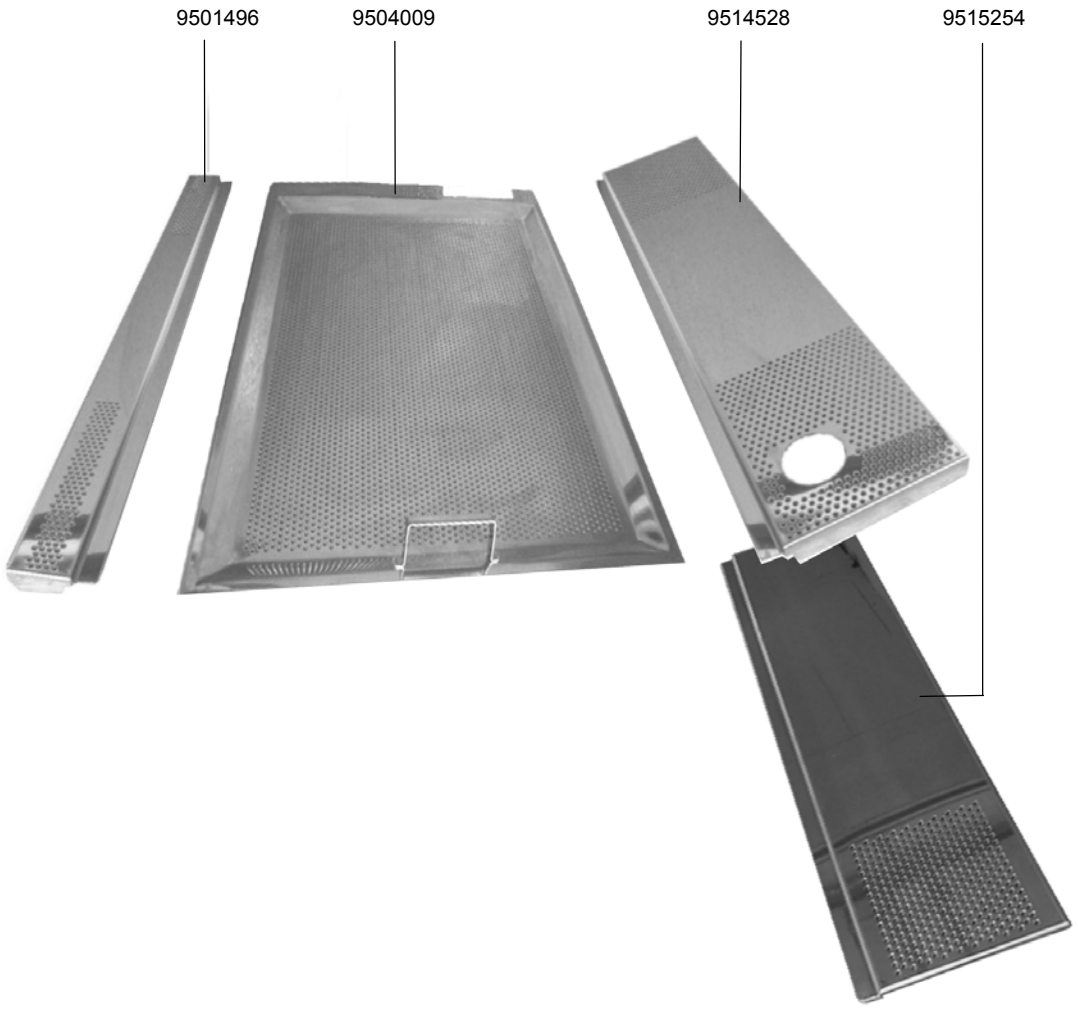
4.3 TANKABDECKSIEB

4.3 TANK COVERING SIEVE

4.3 TAMIS DE RECOUVREMENT DE BAC



IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
9515254	SIEBAUFLAGE SEITLICH	SIEVE SUPPORT	SUPPORT DE TAMIS
9514528	SIEBAUFLAGE SEITLICH	SIEVE SUPPORT	SUPPORT DE TAMIS
9504009	TANKABDECKSIEB	TANK COVERING SIEVE	TAMIS DE RECOUVREMENT DE BAC
9501496	SIEBAUFLAGE SEITLICH	SIEVE SUPPORT	SUPPORT DE TAMIS

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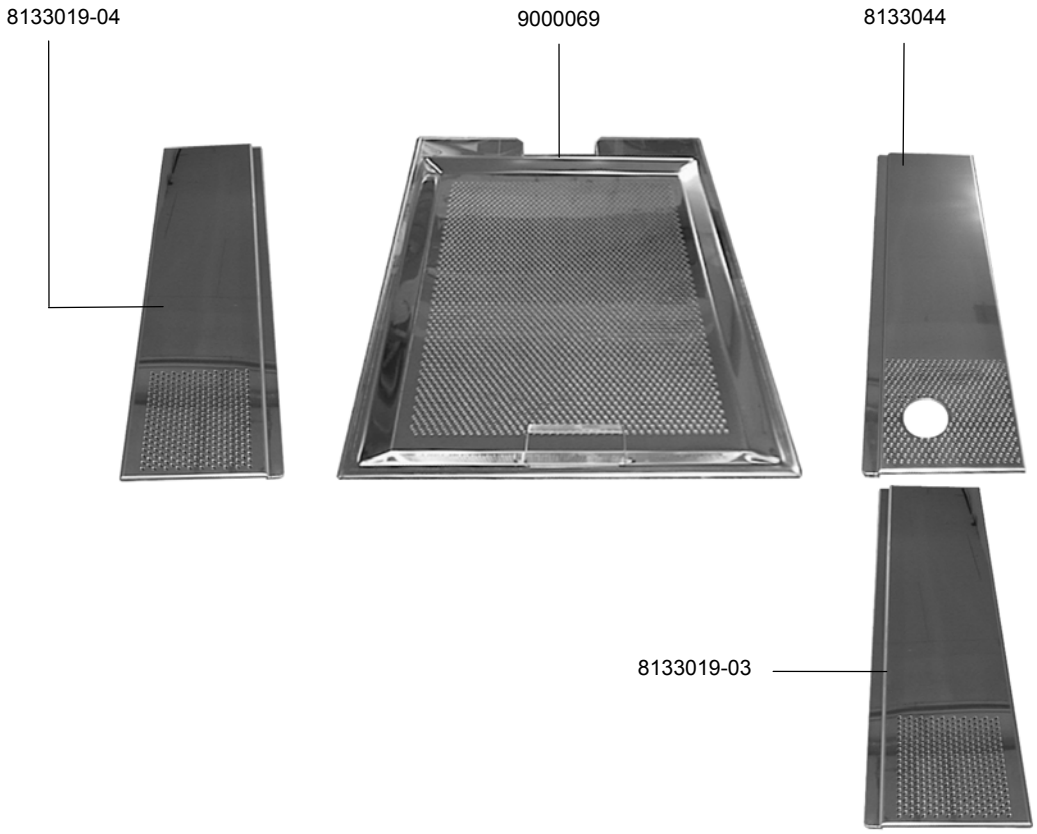
4.4 TANKABDECKSIEB

4.4 TANK COVERING SIEVE

4.4 TAMIS DE RECOUVREMENT DE BAC



IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
8133044	SIEBAUFLAGE SEITLICH	SIEVE SUPPORT	SUPPORT DE TAMIS
9000069	TANKABDECKSIEB	TANK COVERING SIEVE	TAMIS DE RECOUVREMENT DE BAC
8133019-03	SIEBAUFLAGE SEITLICH	SIEVE SUPPORT	SUPPORT DE TAMIS
8133019-04	SIEBAUFLAGE SEITLICH	SIEVE SUPPORT	SUPPORT DE TAMIS

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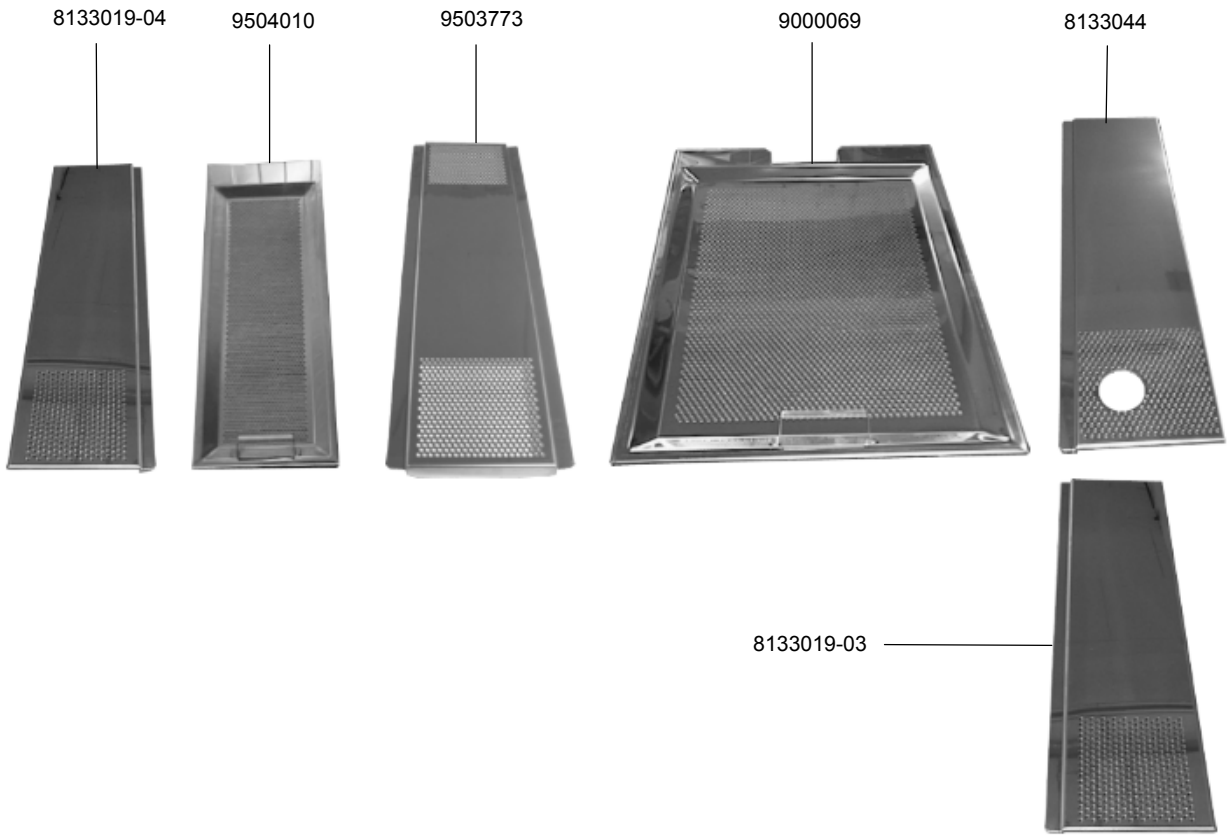
4.5 TANKABDECKSIEB

4.5 TANK COVERING SIEVE

4.5 TAMIS DE RECOUVREMENT DE BAC



IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
8133044	SIEBAUFLAGE SEITLICH	SIEVE SUPPORT	SUPPORT DE TAMIS
9000069	TANKABDECKSIEB	TANK COVERING SIEVE	TAMIS DE RECOUVREMENT DE BAC
9503773	SIEBAUFLAGE MITTIG	SIEVE SUPPORT	SUPPORT DE TAMIS
9504010	TANKABDECKSIEB	TANK COVERING SIEVE	TAMIS DE RECOUVREMENT DE BAC
8133019-03	SIEBAUFLAGE SEITLICH	SIEVE SUPPORT	SUPPORT DE TAMIS
8133019-04	SIEBAUFLAGE SEITLICH	SIEVE SUPPORT	SUPPORT DE TAMIS

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5.1 TANKABLAUF

5.1 TANK DRAIN

5.1 VIDANGE DE BAC

IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
8132739	ABLAUF	DRAIN	VIDANGE

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5.2 TANKABLAUF

5.2 TANK DRAIN

5.2 VIDANGE DE BAC

IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
9523271	ABLAUF	DRAIN	VIDANGE

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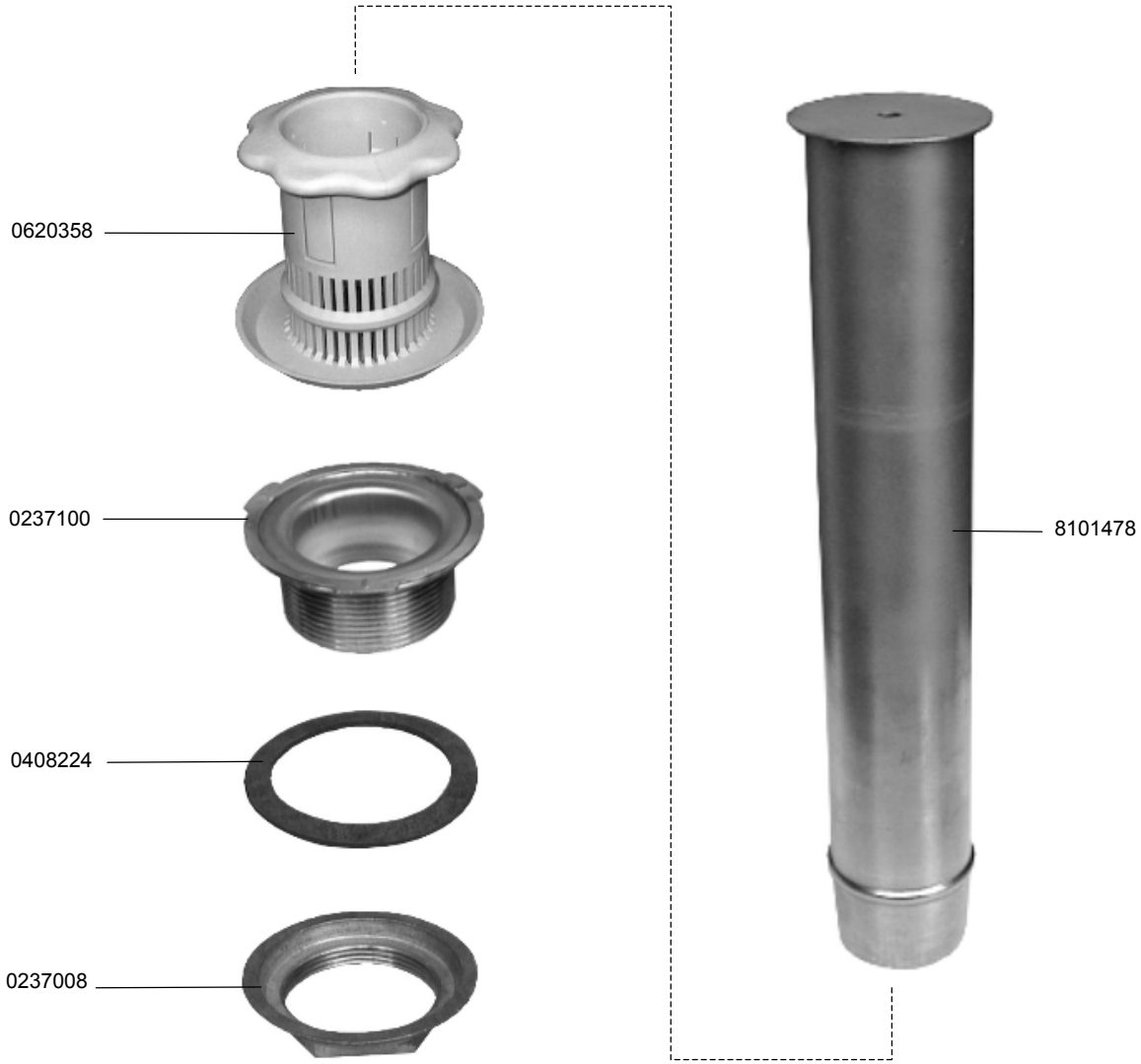
5.3 TANKABLAUF

5.3 TANK DRAIN

5.3 VIDANGE DE BAC



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
*	8101478	TRICHTERSTANDROHR	FUNNEL STAND PIPE	TROP-PLEIN ANTONNOIR
*	0620358	SIEB FUER STANDROHR K 363	SIEVE F. DRAIN PLUG K 363	TAMIS P. TUYAU DE VIDANGE K 363
	0237100	ABLAUF G 2" KOMPLETT	DRAIN 2" 434131240	VIDANGE 2“
	0408224	GUMMIDICHTUNG 78X60X2	RUBBER PACKING 78X60X2	JOINT EN CAOUTCHOUC 78X60X2
	0237008	STANDR.VENT.-MUTTER 9942 2" X 88 MM MS.	NUT. NO. 9942 MS2 " X 88 MM	ECROU NO. 9942 MS 2 " X 88 MM

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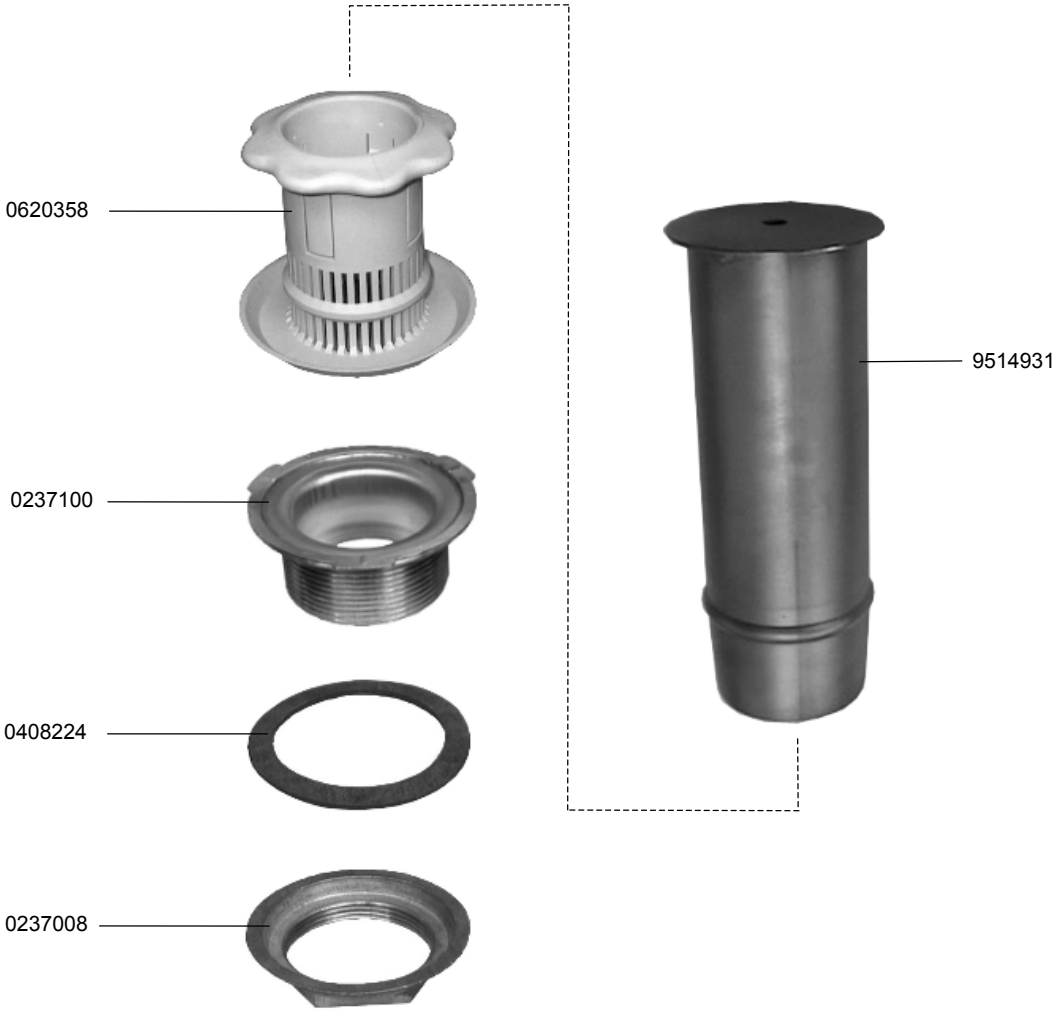
5.4 TANKABLAUF

5.4 TANK DRAIN

5.4 VIDANGE DE BAC



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
*	9514931	TRICHTERSTANDROHR	FUNNEL STAND PIPE	TROP-PLEIN ANTONNOIR
*	0620358	SIEB FUER STANDROHR K 363	SIEVE F. DRAIN PLUG K 363	TAMIS P. TUYAU DE VIDANGE K 363
	0237100	ABLAUF G 2" KOMPLETT	DRAIN 2" 434131240	VIDANGE 2“
	0408224	GUMMIDICHTUNG 78X60X2	RUBBER PACKING 78X60X2	JOINT EN CAOUTCHOUC 78X60X2
	0237008	STANDR.VENT.-MUTTER 9942 2" X 88 MM MS.	NUT. NO. 9942 MS2 " X 88 MM	ECROU NO. 9942 MS 2 " X 88 MM

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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6.1 WASCHPUMPE KV

6.1 WASHPUMP KV

6.1 POMPE DE LAVAGE KV

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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6.1 WASCHPUMPE KV

6.1 WASHPUMP KV

6.1 POMPE DE LAVAGE KV

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	9503421	ANSAUGSTUTZEN	SUCTION PORT	MANCHON DE ASPIRATION
	0293010	DICHTUNG	PACKING	JOINT
	0237008	MUTTER 2“	NUT 2“	ECROU 2“
	0408228	DICHTUNG	PACKING	JOINT
	0237095	ANSAUGSIEB	SUCTION SIEVE	FILTRE DE ASPIRATION
	9515682	ANSAUGSIEB	SUCTION SIEVE	FILTRE DE ASPIRATION
	PUMPE	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAMM	VOIR SCHEMA ELECTRIQUE
	9504073	SCHLAUCH L-R, 221 MM	HOSE L-R, 221 MM	TUYAU G-D, 221 MM
	9504073	SCHLAUCH R-L, 126 MM	HOSE R-L, 126 MM	TUYAU D-G, 126 MM
	8102291	NIPPEL	NIPPLE	NIPPLE
*	9500283	O-RING	O-RING	BAGUE
	8103384	TANKDURCHFÜHRUNG	TANKTHROUGH-LEAD	TRAVERSEE DU BAC
	9501186	DICHTUNG	PACKING	JOINT
	8660240	MUTTER ¾“	NUT ¾“	ECROU ¾“
	9541830	WINKEL ¾“	ANGLE ¾“	ANGLE ¾“
	8100538	SCHLAUCH	HOSE	TUYAU
	0233046	SCHLAUCHKLEMME 32-50	HOSE WIRE CLAMP 32 50	COLLIER DE SERRAGE 32-50

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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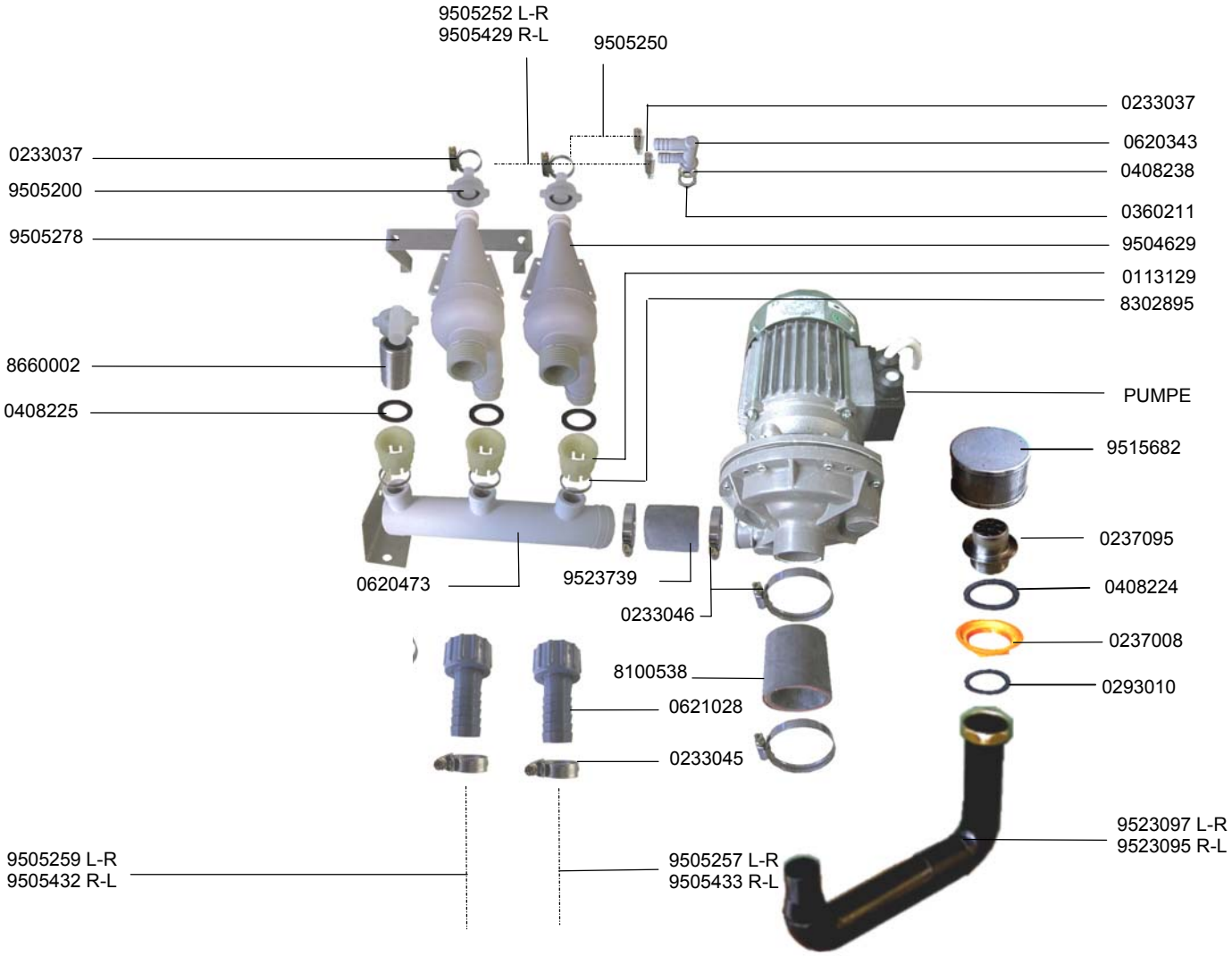
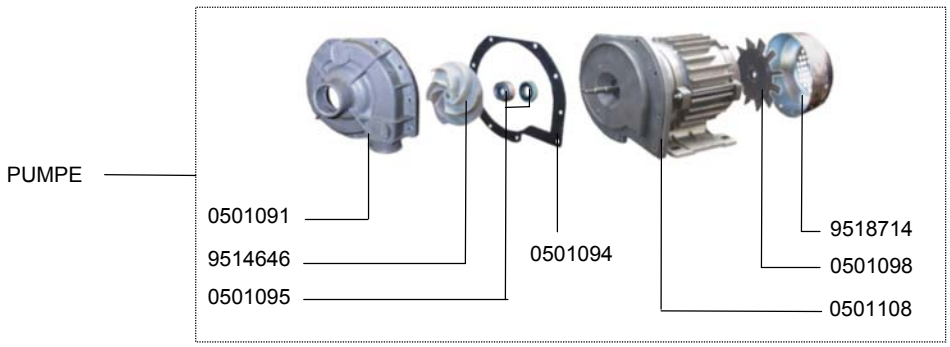
6.2 WASCHPUMPE CSS

6.2 WASH PUMP CSS

6.2 POMPE DE LAVAGE CSS





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6.2 WASCHPUMPE CSS

6.2 WASH PUMP CSS

6.2 POMPE DE LAVAGE CSS

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	9523097	ANSAUGSTUTZEN L-R	SUCTION PORT L-R	MANCHON DE ASPIRATION G-D
	9523095	ANSAUGSTUTZEN R-L	SUCTION PORT R-L	MANCHON DE ASPIRATION D-G
	0293010	DICHTUNG	PACKING	JOINT
	0237008	MUTTER 2“	NUT 2“	ECROU 2“
	0408224	DICHTUNG	PACKING	JOINT
	0237095	ANSAUGSIEB	SUCTION SIEVE	FILTRE DE ASPIRATION
	9515682	ANSAUGSIEB	SUCTION SIEVE	FILTRE DE ASPIRATION
	PUMPE	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	8302895	HALTERING	SUPPORT RING	BAGUE DE SUPPORT
	0113129	ANSCHLUSSTÜCK	CONNECTION PIECE	PIECE DE CONNEXION
*	9504629	ZYKLONGEHÄUSE	CYCLONE HOUSING	CORPS CYCLONE
	0360211	MUTTER	NUT	ECROU
	0408238	DICHTUNG	PACKING	JOINT
	0620343	SCHLAUCHANSCHLUSS	HOSE CONNECTION	CONNEXION DE TUYAU
	0233037	SCHLAUCHKLEMME	HOSE WIRE CLAMP	COLLIER DE SERRAGE
	9505250	SCHLAUCH	HOSE	TUYAU
	9505252	SCHLAUCH L-R	HOSE L-R	TUYAU G-D
	9505429	SCHLAUCH R-L	HOSE R-L	TUYAU D-G
	9505200	ANSCHLUSSTÜCK	CONNECTION PIECE	PIECE DE CONNEXION
	9505278	HALTEBÜGEL	SUPPORT	SUPPORT
	8660002	STOPFEN	BOLT	BOULON
*	0408225	DICHTUNG	PACKING	JOINT
	9505259	SCHLAUCH L-R	HOSE L-R	TUYAU G-D
	9505432	SCHLAUCH R-L	HOSE R-L	TUYAU D-G
	0620473	VERTEILERROHR	DISTRIBUTING PIPE	TUYEAU DISTRIBUTEUR
	9523739	SCHLAUCH	HOSE	TUYAU
	0233046	SCHLAUCHKLEMME	HOSE WIRE CLAMP	COLLIER DE SERRAGE
	8100538	SCHLAUCH	HOSE	TUYAU
	0621028	ÜBERGANGSSTÜCK	CONNECTOR	PIECE DE RACCORDEMENT
	0233045	SCHLAUCHKLEMME	HOSE WIRE CLAMP	COLLIER DE SERRAGE
	9505257	SCHLAUCH L-R	HOSE L-R	TUYAU G-D
	9505433	SCHLAUCH R-L	HOSE R-L	TUYAU D-G
	0501091	PUMPENGEHÄUSE	PUMP HOUSING	CORPS DE POMPE
*	9514646	PUMPENLAUFRAD	PUMP WHEEL	ROUE DE POMPE
V	0501095	GLEITRINGDICHTUNG	SLIDING SEAL	JOINT AXIAL
	0501094	DICHTUNG	PACKING	JOINT
	0501108	PUMPENDECKEL	PUMP LID	COUVERCLE DE POMPE
	0501098	VENTILATORFLÜGEL	FAN WHEEL	ROUE VENTILATEUR
	9518714	LÜFTERHAUBE	FAN COWL	COPOTAGE DE VENTILATEUR

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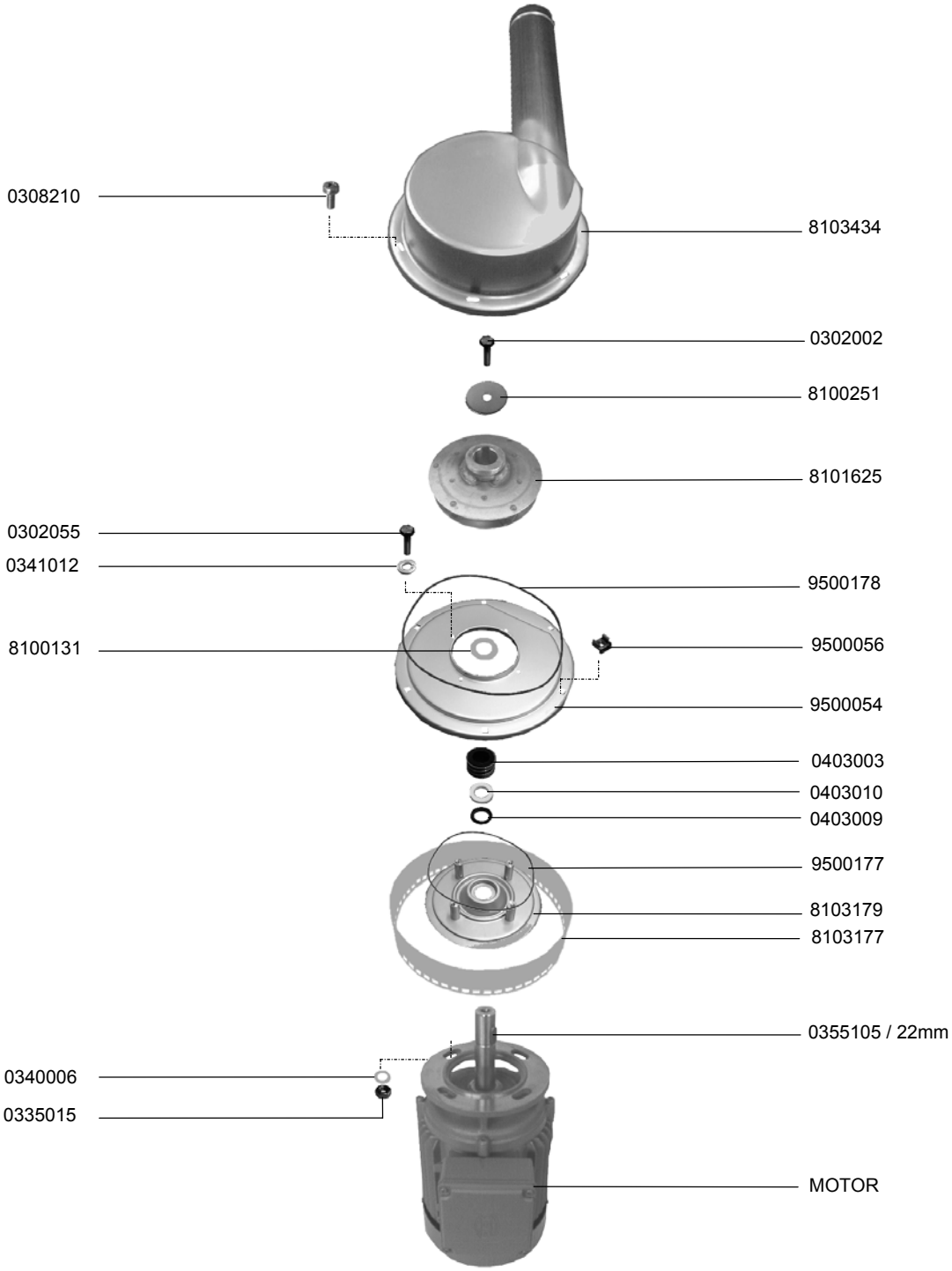
6.4 WASCHPUMPE 1,7KW CRNI, 50HZ

6.4 WASH PUMP 1,7KW CRNI, 50HZ

6.4 POMPE DE LAVAGE 1,7KW CRNI, 50HZ



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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6.4 WASCHPUMPE 1,7KW CRNI, 50HZ

6.4 WASH PUMP 1,7KW CRNI, 50HZ

6.4 POMPE DE LAVAGE 1,7KW CRNI, 50HZ

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	MOTOR	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
*	0355105	PASSFEDER A 8X7X22	FEATHER KEY A 8X7X22	RESSORT D'AJUSTAGE A 8X7X22
	8103177	ANSAUGSIEB	SUCTION SIEVE	FILTRE D'ASPIRATION
	8103179	MOTORTRÄGER	MOTOR SUPPORT	SUPPORT DE MOTEUR
*	9500177	RUNDDICHTRING 70°	GASKET 70°	JOINT 70°
V	0403009	GLEITR.-MANSCHETTE WINKEL 30X40X7 480000008	COLLAR PERBUNAN 30X40X7 480 000 008	MANCHETTE PEBUNAN 30X40X7 480 000 008
V	0403010	GLEITRING KERAMIK 25,9X38X8	SLIDING SEAL CERAMICS 25X38X8	JOINT AXIAL CERAMIQUE 25X38X8
V	0403003	GLEITRINGDICHTUNG VITON 25X44X20	SLIDING SEAL 25X44X20	JOINT AXIAL 25X44X20
	9500054	PUMPENBODEN	PUMP BASE	FOND DE POMPE
	9500056	KÄFIGMUTTER M6 1,2-1,6	NUT M6 1,2-1,6	ECROU M6 1,2-1,6
*	9500178	RUNDDICHTRING 70°	GASKET 70°	JOINT 70°
*	8101625	PUMPENRAD 1,7KW Ø120X49 1.4301	IMPELLER 1,7KW Ø120X49 1.4301	ROUE DE POMPE 1,7KW Ø120X49 1.4301
	8100251	U-SCHEIBE Ø34X7X2 1.4301	FRONT DISC Ø34X7X2 1.4301	RONDELLE Ø34X7X2 1.4301
	0302002	SKT.-SCHRAUBE M6X20	HEXAGON SCREW	VIS A 6 PANS
	8103434	PUMPENDECKEL KOMPL.	PUMP LID CPL.	COUVERCLE DE POMPE CPL.
	0308210	SKT.-SCHRAUBE M6X10	SCREW M6 X 10,	VIS M 6 X 15,
	0302055	SKT.-SCHRAUBE M6X12	HEXAGON SCREW M6 X 12 MM 1.4301	VIS A 6 PANS DIN 933 M6 X 12 MM 1.4301
	0341012	FEDERRING 6	SPRING RING 6	RESSORT 6
	8100131	U-SCHEIBE Ø38XØ24,1X1 1.4301	SUPPORT DISC Ø38XØ24,1X1 1.4301	RONDELLE Ø38XØ24,1X1 1.4301
	0340006	U-SCHEIBE MS. VERN. Ø18XØ8,4X2	WASHER BRASS NICKELED Ø18XØ8,4X2	RONDELLE EN LAITON NICKELE Ø18XØ8,4X2
	0335015	SKT.-MUTTER M8 1.4301	HEXAGON NUT M8 1.4301	ECROU A 6 PANS M8 1.4301

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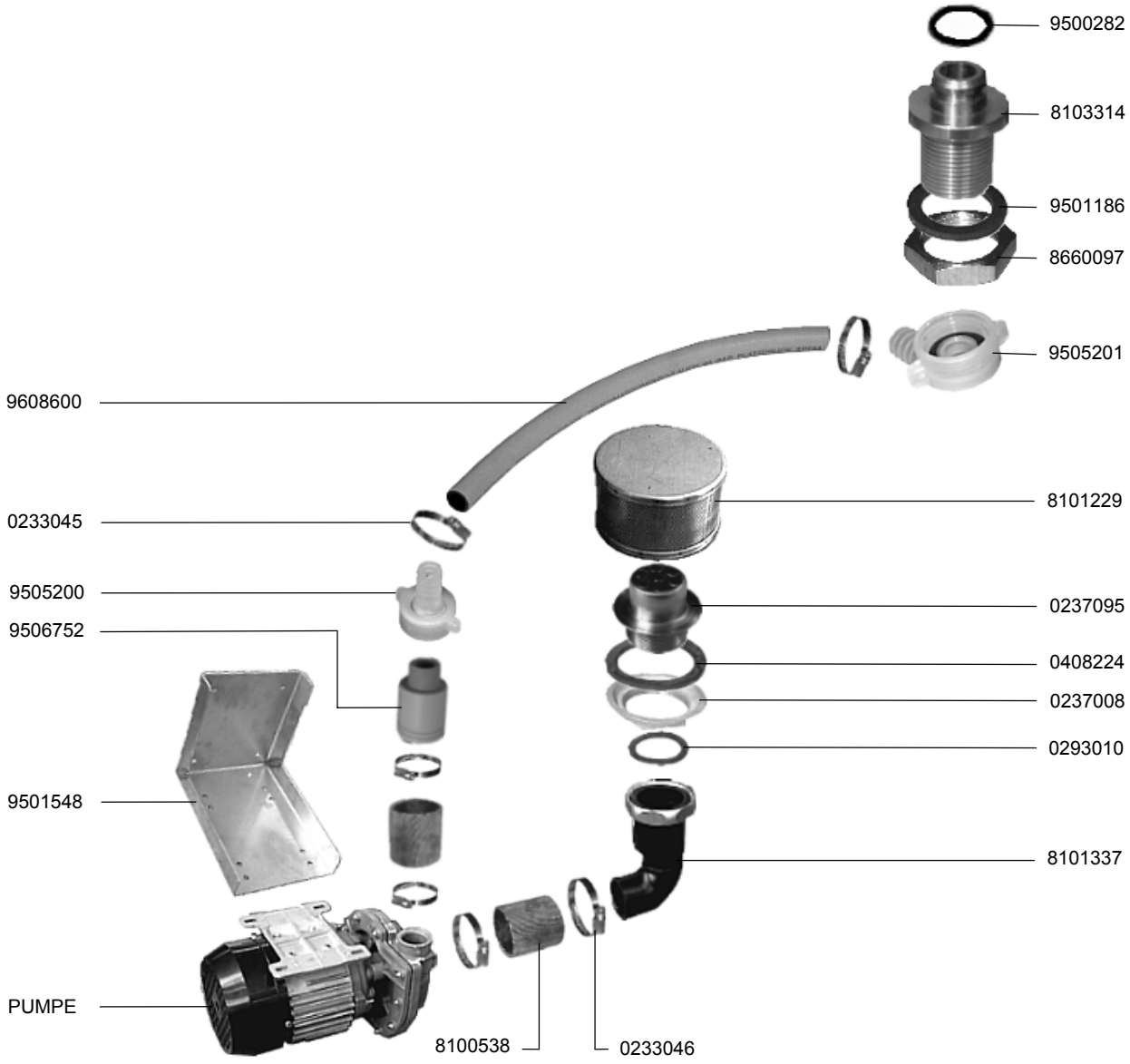
6.5 WASCHPUMPE - PUMPENKLARSPÜLUNG

6.5 WASHPUMP - PUMP FINAL RINSE

6.5 POMPE DE LAVAGE - RINCAGE FINAL A POMPE



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6.5 WASCHPUMPE - PUMPENKLARSPÜLUNG

6.5 WASHPUMP - PUMP FINAL RINSE

6.5 POMPE DE LAVAGE - RINCAGE FINAL A POMPE

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	8101337	ANSAUGSTUTZEN	SUCTION PORT	MANCHON DE ASPIRATION
	0293010	DICHTUNG	PACKING	JOINT
	0237008	MUTTER 2“	NUT 2“	ECROU 2“
	0408224	DICHTUNG	PACKING	JOINT
	0237095	ANSAUGSIEB	SUCTION SIEVE	FILTRE DE ASPIRATION
	8101229	ANSAUGSIEB	SUCTION SIEVE	FILTRE DE ASPIRATION
	9505201	ANSCHLUSWINKEL	CONNECTION ANGLE	ANGLE DE CONNEXION
	8660097	MUTTER ¾“	NUT ¾“	ECROU ¾“
	9501186	DICHTUNG	PACKING	JOINT
	8103314	TANKDURCHFÜHRUNG	TANKTHROUGH-LEAD	TRAVERSEE DU BAC
*	9500282	O-RING	O-RING	BAGUE
	9608600	SCHLAUCH ½“	HOSE ½“	TUYAU ½“
	0233045	SCHLAUCHKLEMME 20-32	HOSE WIRE CLAMP 20-32	COLLIER DE SERRAGE 20-32
	9505200	ANSCHLUSSTÜCK	CONNECTION PART	PIECE DE CONNEXION
	9506752	VERBINDUNGSTEIL	CONNECTION PART	PIECE DE CONNEXION
	9501548	KONSOLE	CONSOLE	CONSOLE
	PUMPE	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	8100538	SCHLAUCH	HOSE	TUYAU
	0233046	SCHLAUCHKLEMME 32-50	HOSE WIRE CLAMP 32 50	COLLIER DE SERRAGE 32-50

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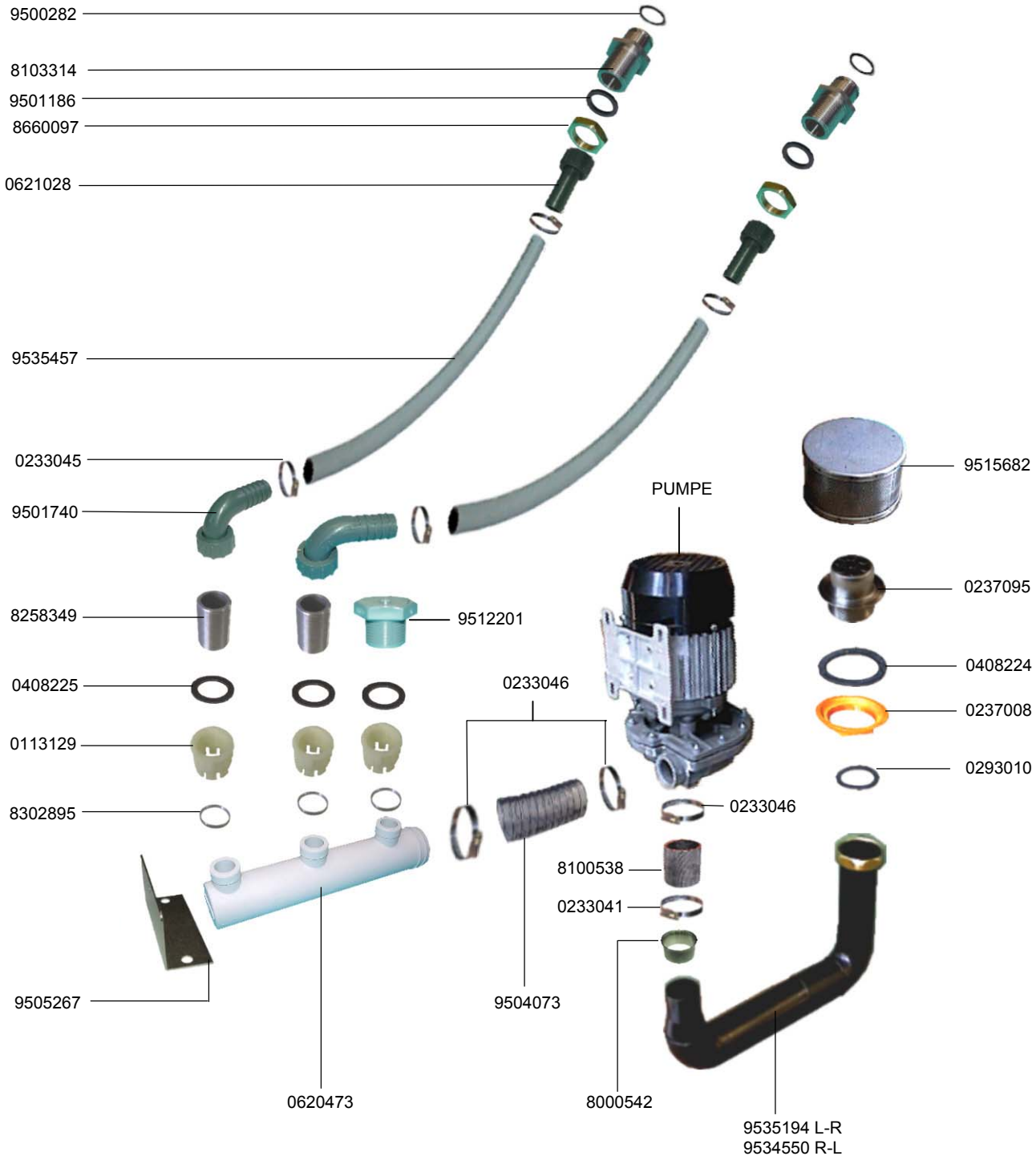
6.6 WASCHPUMPE V 750

6.6 WASHPUMP V 750

6.6 POMPE DE LAVAGE V 750



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6.6 WASCHPUMPE V 750

6.6 WASHPUMP V 750

6.6 POMPE DE LAVAGE V 750

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	9535194	ANSAUGSTUTZEN L-R	SUCTION PORT L-R	MANCHON DE ASPIRATION G-D
	9534550	ANSAUGSTUTZEN R-L	SUCTION PORT R-L	MANCHON DE ASPIRATION D-G
	0293010	DICHTUNG	PACKING	JOINT
	0237008	MUTTER 2“	NUT 2“	ECROU 2“
	0408224	DICHTUNG	PACKING	JOINT
	0237095	ANSAUGSIEB	SUCTION SIEVE	FILTRE DE ASPIRATION
	9515682	ANSAUGSIEB	SUCTION SIEVE	FILTRE DE ASPIRATION
	9501740	ANSCHLUSSWINKEL	CONNECTION ANGLE	ANGLE DE CONNECTION
	8660097	MUTTER ¾“	NUT ¾“	ECROU ¾“
	9501186	DICHTUNG	PACKING	JOINT
	8103314	TANKDURCHFÜHRUNG	TANKTHROUGH-LEAD	TRAVERSEE DU BAC
*	9500282	O-RING	O-RING	BAGUE
	9535457	SCHLAUCH	HOSE	TUYAU
	0233045	SCHLAUCHKLEMME 20-32	HOSE WIRE CLAMP 20-32	COLLIER DE SERRAGE 20-32
	0233046	SCHLAUCHKLEMME 32-50	HOSE WIRE CLAMP 32-50	COLLIER DE SERRAGE 32-50
	0621028	ANSCHLUSSTÜCK	CONNECTION PIECE	PIECE DE CONNEXION
	8258349	GEWINDENIPPEL	NIPPLE	NIPPLE
	PUMPE	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	8100538	SCHLAUCH	HOSE	TUYAU
	0233046	SCHLAUCHKLEMME 32-50	HOSE WIRE CLAMP 32 50	COLLIER DE SERRAGE 32-50
*	0408225	DICHTUNG	PACKING	JOINT
	0113129	ANSCHLUSSSTÜCK	CONNECTION PIECE	PIECE DE CONNEXION
	8302895	HALTERING	SUPPORT RING	BAGUE DE SUPPORT
	9505267	HALTERUNG	SUPPORT	SUPPORT
	0620473	VERTEILERROHR	DISTRIBUTING PIPE	TUYEAU DISTRIBUTEUR
	9504073	SCHLAUCH	HOSE	TUYAU
	0233041	SCHLAUCHKLEMME 40-60	HOSE WIRE CLAMP 40-60	COLLIER DE SERRAGE 40-60
	9512201	STOPFEN	BOLT	BOULON
	8000542	VERSTÄRKUNGSRING	SUPPORT RING	BAGUE DE SUPPORT

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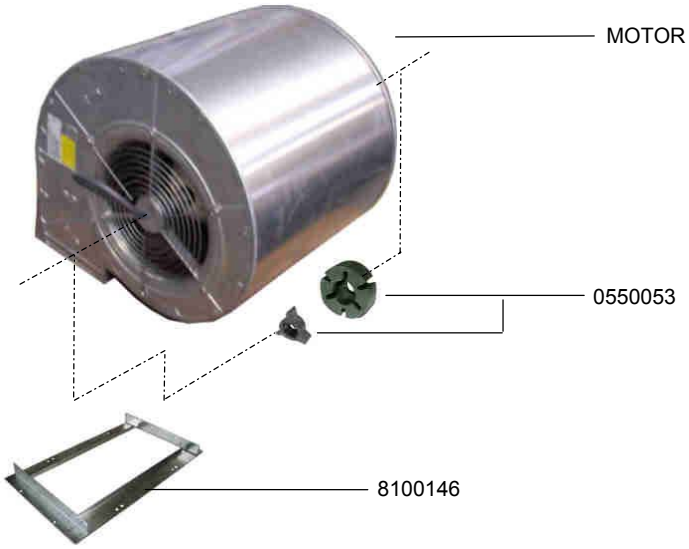
7 TROCKNUNG

7 DRYING

7 SECHAGE



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	8100146	RAHMEN FÜR GEBLÄSE,SCHW.T 1.4301 440X250X30	FRAME FOR FAN 1.4301 440X250X30	CADRE DE VENTILATEUR 1.4301 440X250X30
	MOTOR	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
V	0550053	LAGERBUECHSE 1610-023 00273340 MIT EINSATZ	BEARING BUSH 1610-023 00273340	COUSSINET 1610-023 00273340

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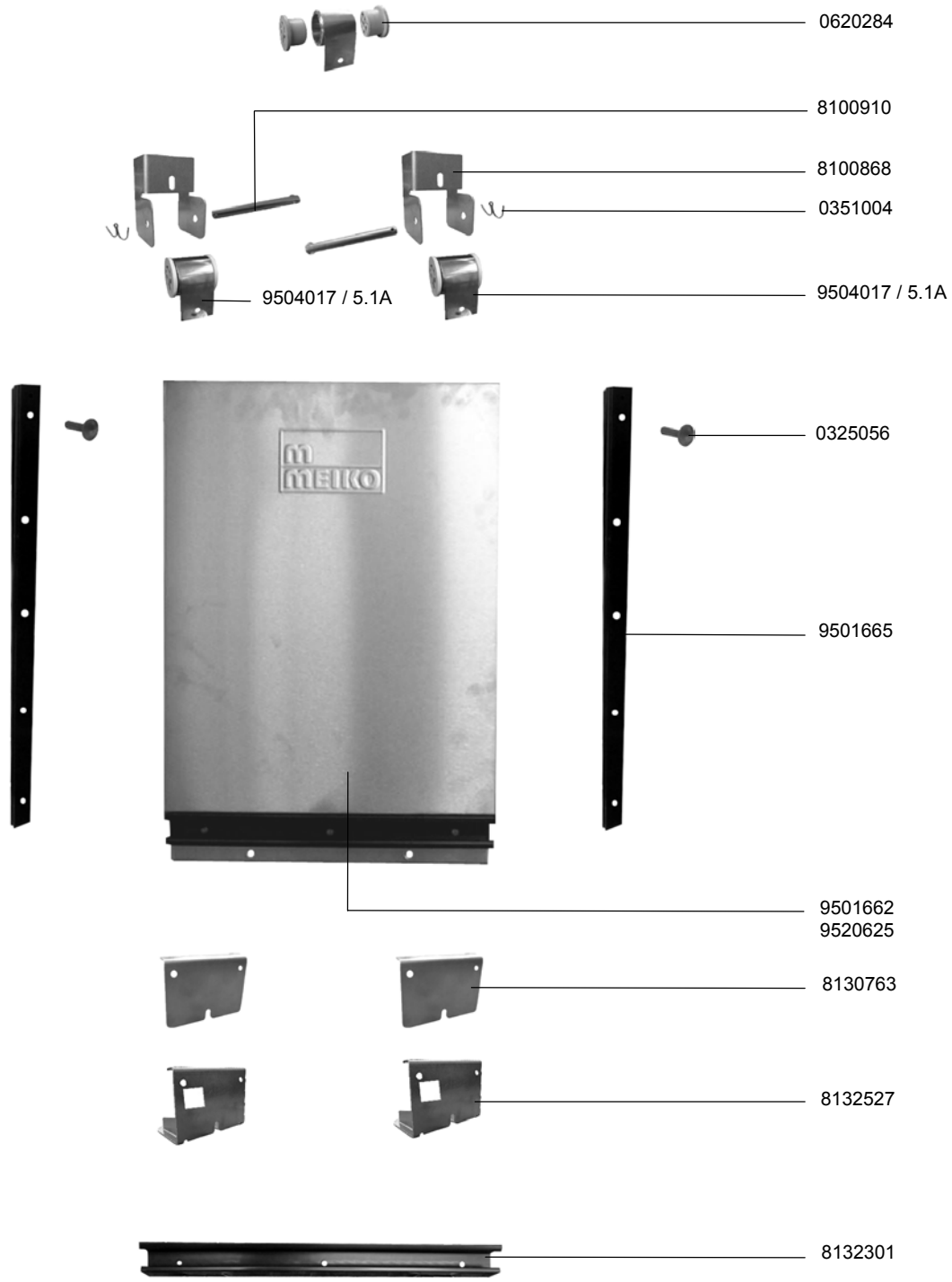
8.1 TÜR 500

8.1 DOOR 500

8.1 PORTE 500



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8.1 TÜR 500

8.1 DOOR 500

8.1 PORTE 500

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	8132301	TÜRGRIFFPROFIL TÜR 500MM	DOOR HANDLE PROFILE DOOR 500MM	PROFILE DE POIGNEE DE PORTE, PORTE 500MM
	8132527	TÜRANSCHLAG MIT ABLAUFSCHLIESSUNG	DOOR CATCH WITH DRAIN CLOSING SYSTEM	ARRET DE PORTE AVEC SYSTEME DE FERMETURE DE VIDANGE
	8130763	TÜRANSCHLAG	DOOR CATCH	ARRET DE PORTE
	9501662	TÜR	DOOR	PORTE
	9520625	TÜR OHNE PRÄGUNG	DOOR WITHOUT EMBOSSING	PORTE SANS ESTAMPE
	9501665	FÜHRUNGSSCHIENE	GUIDE RAIL	RAIL DE GUIDAGE
	0325056	SCHRAUBE M5X30	SCREW M5X30	VIS M5X30
V	9504017	ROLLFEDER 5.1A	ROLLER SPRING 5.1A	ROULEAU A TROU 5.1A
*	0351004	SPLINT 2X20	SPLIT 2X20	GOUPILLE 2X20
	8100868	ROLLFEDERHALTERUNG	SCROLL SRING SUPPORT	SUPPORT POUR RESSORT A CROSSE
	8100910	LAGERBOLZEN KURZ Ø8X78	BOLT SHORT Ø8X78	BOULON Ø8X78
*	0620284	LAGERROLLE ½“	SUPPORT ROLL ½“	ROLEAU DE SUPPORT ½“

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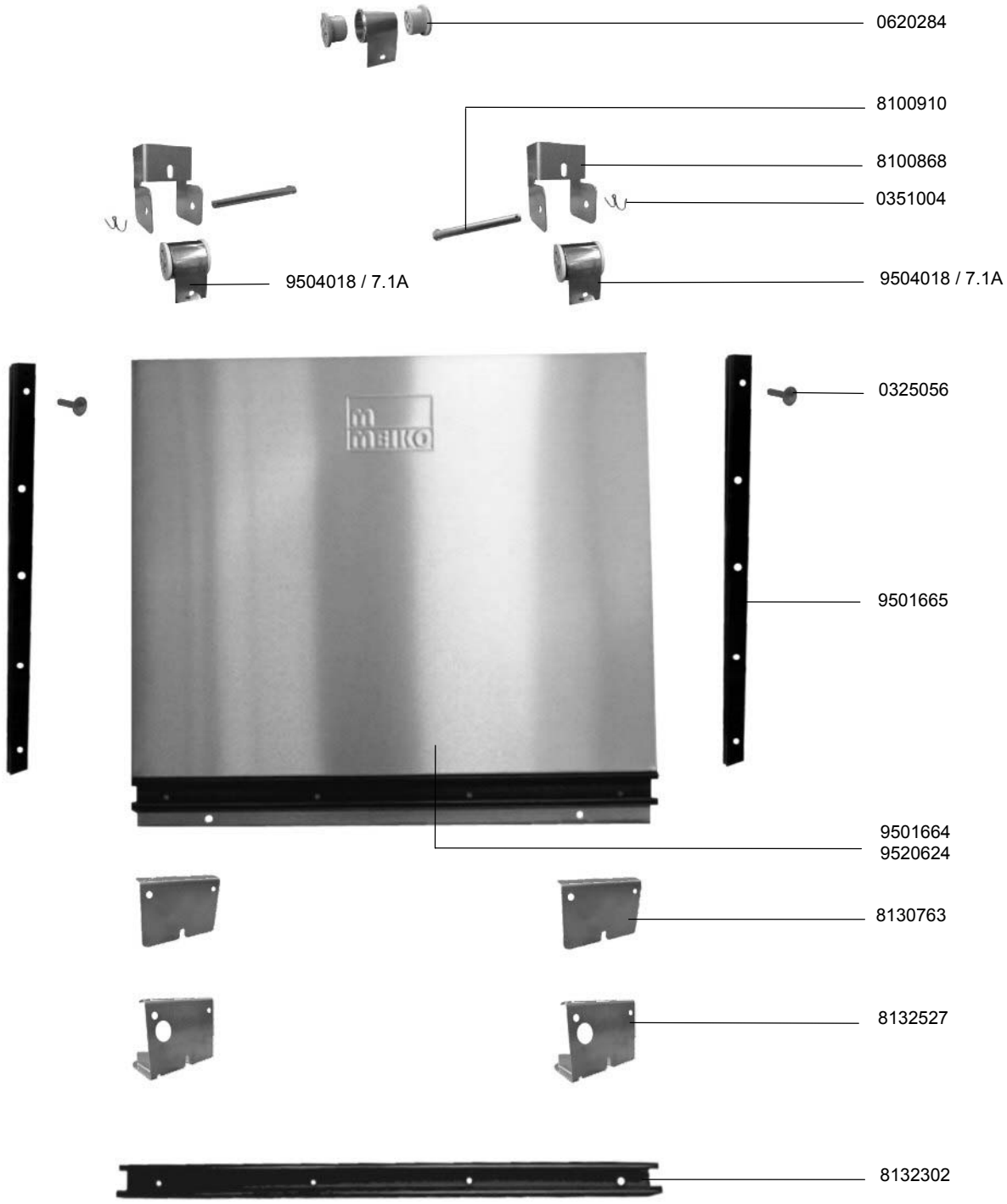
8.2 TÜR 800

8.2 DOOR 800

8.2 PORTE 800



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8.2 TÜR 800

8.2 DOOR 800

8.2 PORTE 800

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	8132302	TÜRGRIFFPROFIL TÜR 800MM	DOOR HANDLE PROFILE DOOR 800MM	PROFILE DE POIGNEE DE PORTE, PORTE 800MM
	8132527	TÜRANSCHLAG MIT ABLAUFSCHLIESSUNG	DOOR CATCH WITH DRAIN CLOSING SYSTEM	ARRET DE PORTE AVEC SYSTEME DE FERMETURE DE VIDANGE
	8130763	TÜRANSCHLAG	DOOR CATCH	ARRET DE PORTE
	9501664	TÜR	DOOR	PORTE
	9520624	TÜR OHNE PRÄGUNG	DOOR WITHOUT EMBOSSING	PORTE SANS ESTAMPE
	9501665	FÜHRUNGSSCHIENE	GUIDE RAIL	RAIL DE GUIDAGE
	0325056	SCHRAUBE M5X30	SCREW M5X30	VIS M5X30
V	9504018	ROLLFEDER 7.1A	ROLLER SPRING 7.1A	ROULEAU A TROU 7.1A
*	0351004	SPLINT 2X20	SPLIT 2X20	GOUPILLE 2X20
	8100868	ROLLFEDERHALTERUNG	SCROLL SRING SUPPORT	SUPPORT POUR RESSORT A CROSSE
	8100910	LAGERBOLZEN KURZ Ø8X78	BOLT SHORT Ø8X78	BOULON Ø8X78
*	0620284	LAGERROLLE ½“	SUPPORT ROLL ½“	ROLEAU DE SUPPORT ½“

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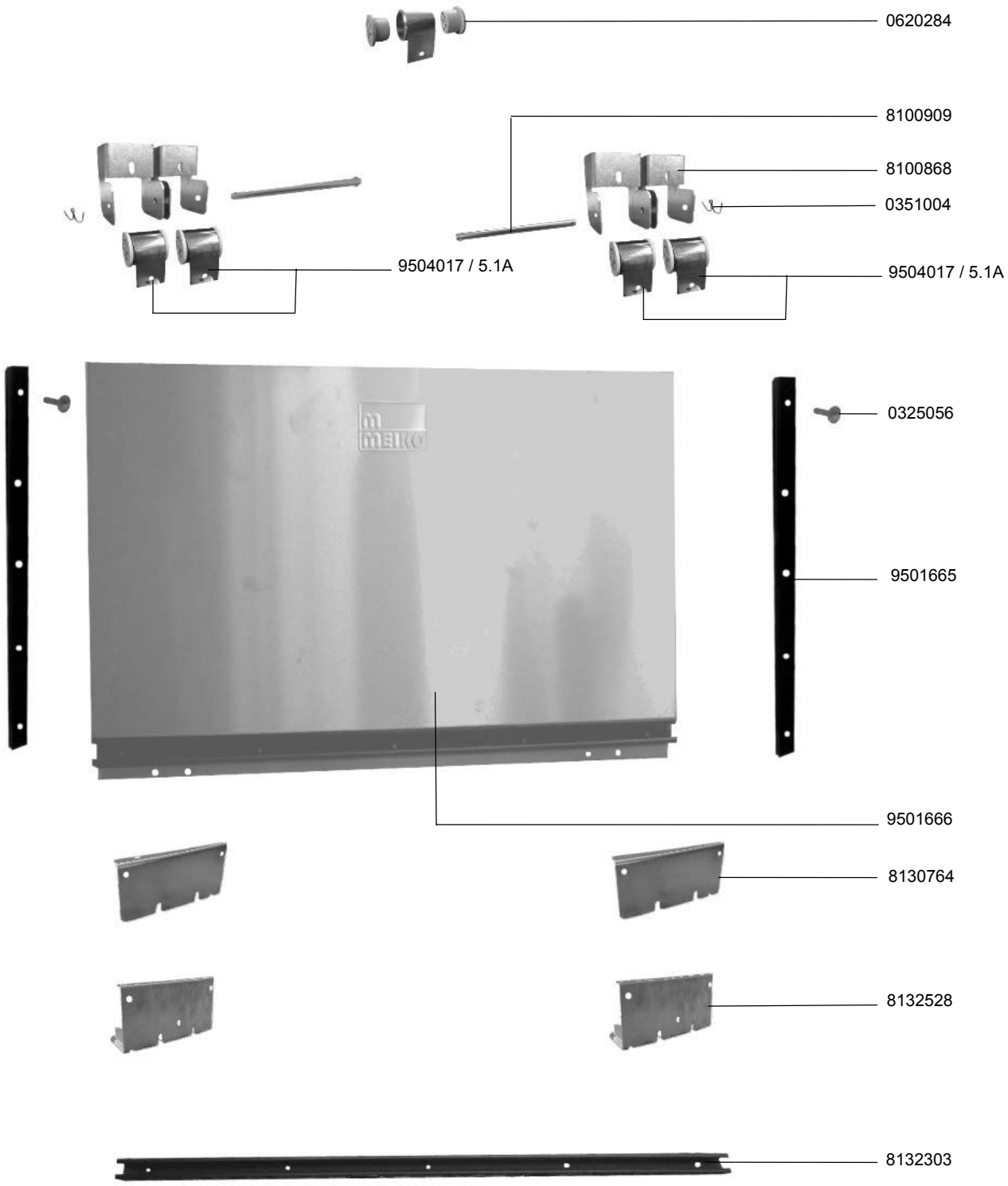
8.3 TÜR 1200

8.3 DOOR 1200

8.3 PORTE 1200



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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8.3 TÜR 1200

8.3 DOOR 1200

8.3 PORTE 1200

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	8132303	TÜRGRIFFPROFIL TÜR 1200MM	DOOR HANDLE PROFILE DOOR 1200MM	PROFILE DE POIGNEE DE PORTE, PORTE 1200MM
	8132528	TÜRANSCHLAG MIT ABLAUFSCHLIESSUNG	DOOR CATCH WITH DRAIN CLOSING SYSTEM	ARRET DE PORTE AVEC SYSTEME DE FERMETURE DE VIDANGE
	8130764	TÜRANSCHLAG	DOOR CATCH	ARRET DE PORTE
	9501666	TÜR	DOOR	PORTE
	9501665	FÜHRUNGSSCHIENE	GUIDE RAIL	RAIL DE GUIDAGE
	0325056	SCHRAUBE M5X30	SCREW M5X30	VIS M5X30
V	9504017	ROLLFEDER 5.1A	ROLLER SPRING 5.1A	ROULEAU A TROU 5.1A
*	0351004	SPLINT 2X20	SPLIT 2X20	GOUPILLE 2X20
	8100868	ROLLFEDERHALTERUNG	SCROLL SRING SUPPORT	SUPPORT POUR RESSORT A CROSSE
	8100909	LAGERBOLZEN LANG Ø8X149	BOLT LONG Ø8X149	BOULON Ø8X149
*	0620284	LAGERROLLE ½“	SUPPORT ROLL ½“	ROLEAU DE SUPPORT ½“

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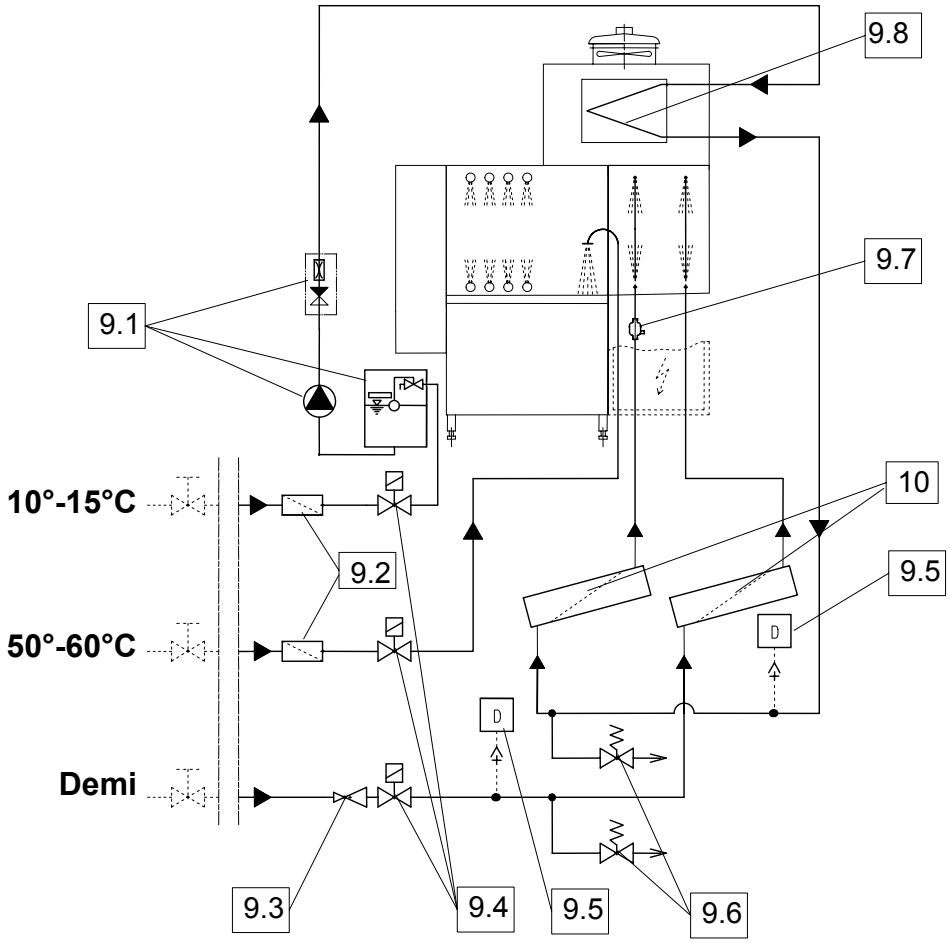
9.0 FRISCHWASSERINSTALLATION (WARMWASSER)

9.0 FRESH WATER INSTALLATION (WARM WATER)

9.0 INSTALLATION A EAU CLAIRE (EAU CHAUDE)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
9.1	FRISCHWASSERNETZTRENNUNG	FRESH WATER MAINS ISOLATING DEVICE	DISPOSITIF DE ISOLEMENT DU RESEAU DE EAU
9.2	FILTER	FILTER	FILTRE
9.3	DRUCKMINDERVENTIL	PRESSURE REDUCING VALVE	REDUCTEUR DE PRESSION
9.4	MAGNETVENTIL	SOLENOID VALVE	ELECTROVANNE
9.5	DURCHFLUSSMESSER	FLOW CONTROL	DEBIT METRE
9.6	ÜBERDRUCKVENTIL	OVERPRESSURE VALVE	SOUPAPE DE SURPRESSION
9.7	NETZMITTELMISCHBEHÄLTER	RINSE-AID MIXING CHAMBER	RESERVOIR DE MELANGE DE PRODUIT DE RINCAGE
9.8	WÄRMETAUSCHER	HEAT EXCHANGER	ECHANGEUR DE CHALEUR
10	HEIZUNG	HEATING ELEMENT	RESISTANCE

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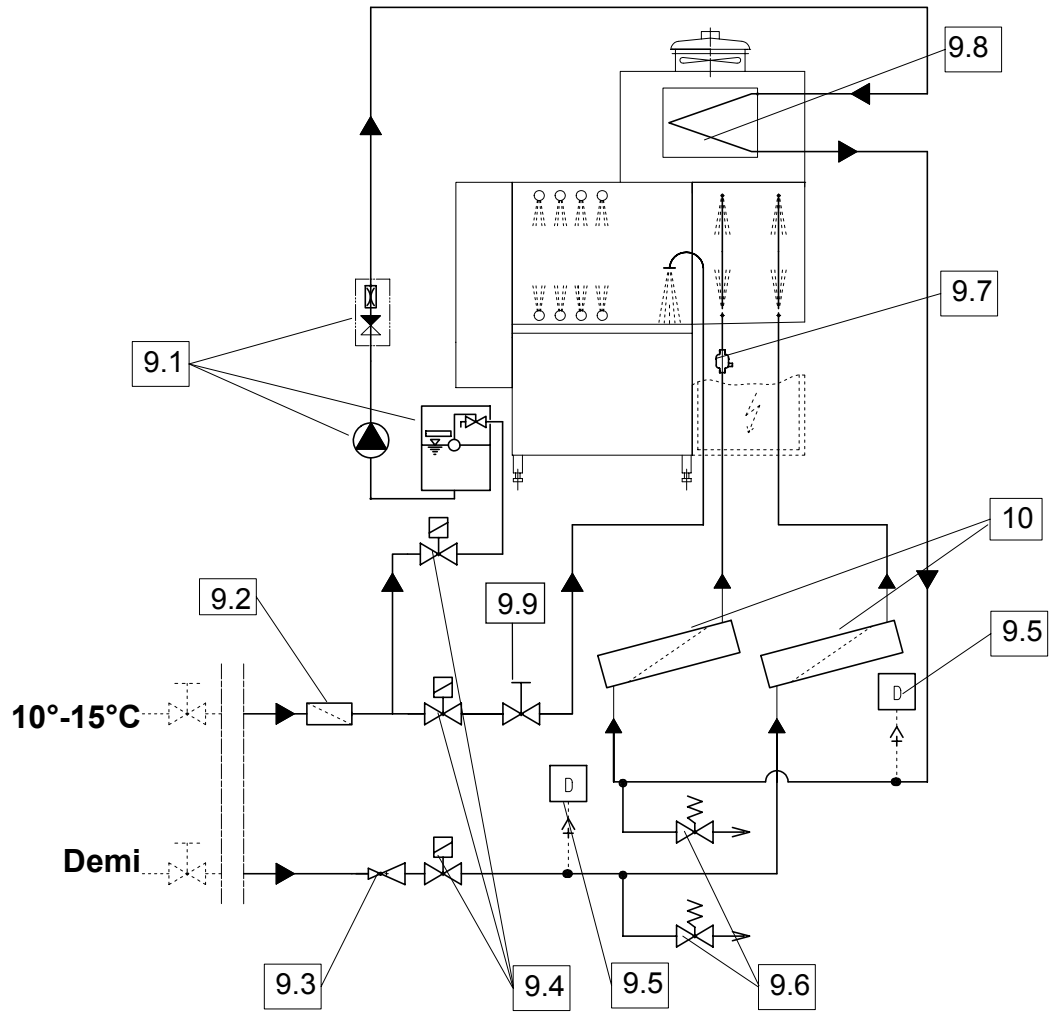
9.0 FRISCHWASSERINSTALLATION (KALTWASSER)

9.0 FRESH WATER INSTALLATION (COLD WATER)

9.0 INSTALLATION A EAU CLAIRE (EAU FROIDE)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
9.1	FRISCHWASSERNETZTRENNUNG	FRESH WATER MAINS ISOLATING DEVICE	DISPOSITIF DE ISOLEMENT DU RESEAU DE EAU
9.2	FILTER	FILTER	FILTRE
9.3	DRUCKMINDERVENTIL	PRESSURE REDUCING VALVE	REDUCTEUR DE PRESSION
9.4	MAGNETVENTIL	SOLENOID VALVE	ELECTROVANNE
9.5	DURCHFLUSSMESSER	FLOW CONTROL	DEBIT METRE
9.6	ÜBERDRUCKVENTIL	OVERPRESSURE VALVE	SOUPAPE DE SURPRESSION
9.7	NETZMITTELMISCHBEHÄLTER	RINSE-AID MIXING CHAMBER	RESERVOIR DE MELANGE DE PRODUIT DE RINCAGE
9.8	WÄRMETAUSCHER	HEAT EXCHANGER	ECHANGEUR DE CHALEUR
9.9	ABSPERRSCHIEBER	STOP BAFFLE	CLAPET DE ARRET
10	HEIZUNG	HEATING ELEMENT	RESISTANCE

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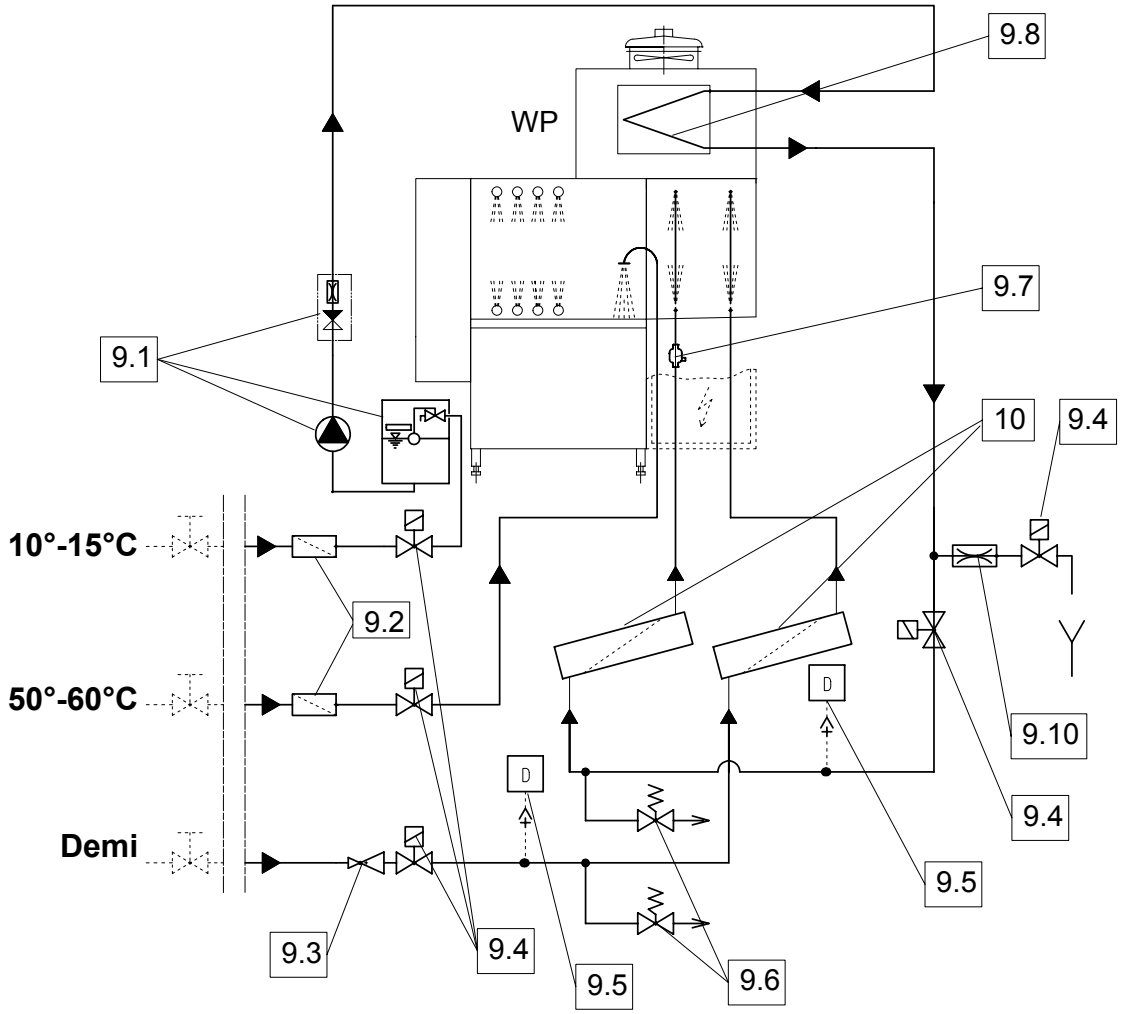
9.0 FRISCHWASSERINSTALLATION (WÄRMEPUMPE)

9.0 FRESH WATER INSTALLATION (HEAT PUMP)

9.0 INSTALLATION A EAU CLAIRE (POMPE DE CHALEUR)



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
9.1	FRISCHWASSERNETZTRENNUNG	FRESH WATER MAINS ISOLATING DEVICE	DISPOSITIF DE ISOLEMENT DU RESEAU DE EAU
9.2	FILTER	FILTER	FILTRE
9.3	DRUCKMINDERVENTIL	PRESSURE REDUCING VALVE	REDUCTEUR DE PRESSION
9.4	MAGNETVENTIL	SOLENOID VALVE	ELECTROVANNE
9.5	DURCHFLUSSMESSER	FLOW CONTROL	DEBIT METRE
9.6	ÜBERDRUCKVENTIL	OVERPRESSURE VALVE	SOUPAPE DE SURPRESSION
9.7	NETZMITTELMISCHBEHÄLTER	RINSE-AID MIXING CHAMBER	RESERVOIR DE MELANGE DE PRODUIT DE RINCAGE
9.8	WÄRMETAUSCHER	HEAT EXCHANGER	ECHANGEUR DE CHALEUR
9.10	MENGENREGLER	FLOW REGULATOR	REGULATEUR DE DEBIT
10	HEIZUNG	HEATING ELEMENT	RESISTANCE

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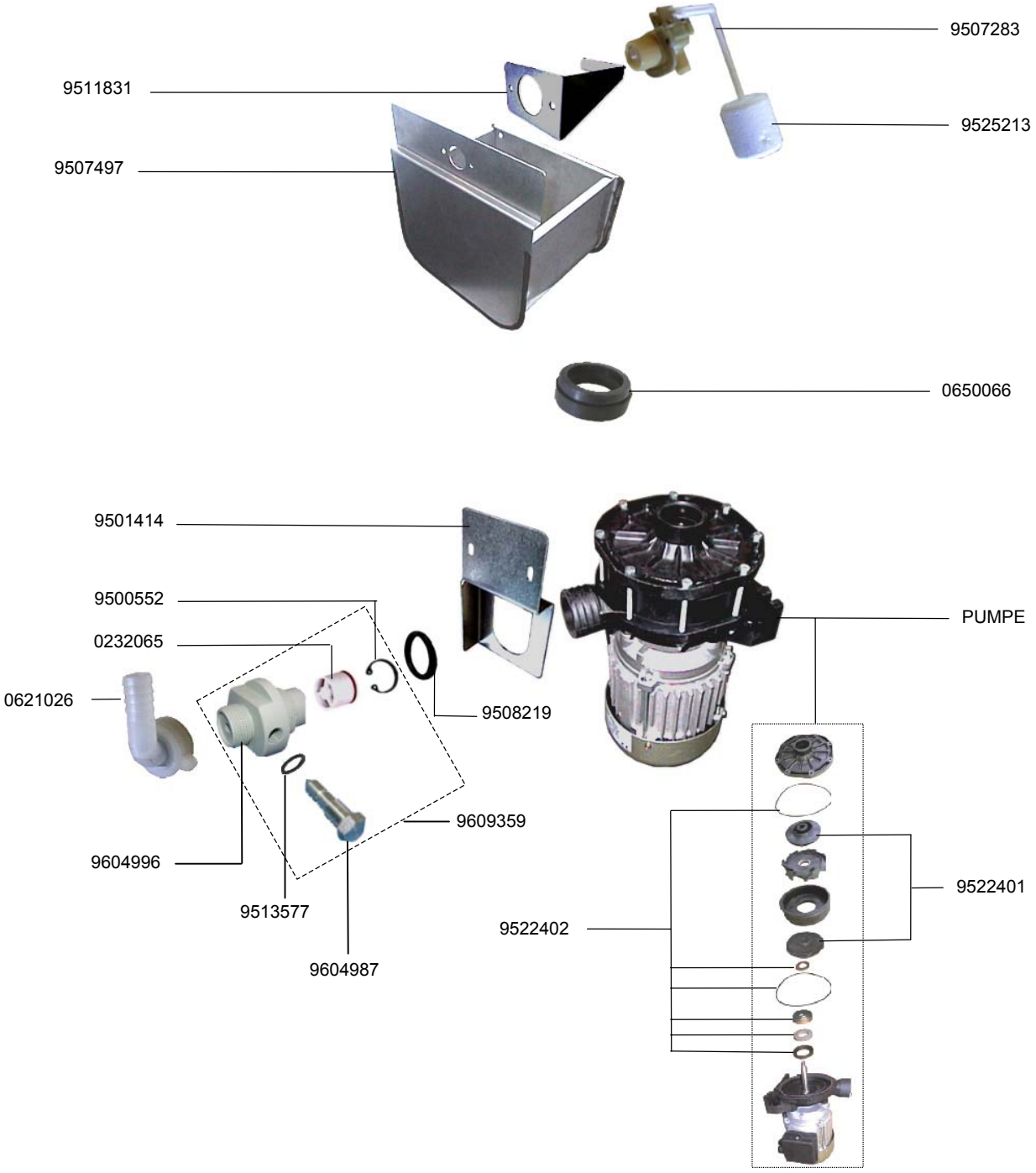
9.1.2 FRISCHWASSERNETZTRENNUNG

9.1.2 FRESH WATER MAINS ISOLATING DEVICE

9.1.2 DIPOSITIF DE ISOLEMENT DU RESEAU DE EAU



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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9.1.2 FRISCHWASSERNETZTRENNUNG

9.1.2 FRESH WATER MAINS ISOLATING DEVICE

9.1.2 DIPOSITIF DE ISOLEMENT DU RESEAU DE EAU

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	PUMPE	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
*	0650066	MUFFE	MUFF	MANCHON
*	9525213	SCHWIMMER	FLOAT	FLOTTEUR
*	9507283	SCHWIMMERVENTIL	FLOAT VALVE	VANNE A FLOTTEUR
	9511831	HALTEBLECH	SUPPORT	SUPPORT
	9507497	BEHÄLTER	CONTAINER	CONTENEUR
	9501414	HALTEBÜGEL	SUPPORT	SUPPORT
	9500552	SICHERUNGSRING	SAFETY RING	BAGUE DE SECURITE
	0232065	RÜCKSCHLAGVENTIL	CHECK VALVE	CLAPET ANTI-RETOUR
	0621026	ANSCHLUSSWINKEL	CONNECTION ANGLE	ANGLE DE CONNEXION
	9609359	ADAPTER KPL	ADAPTER CPL	ADAPTEUR CPL
	9604996	ADAPTER	ADAPTER	ADAPTEUR
	9513577	O-RING	O-RING	BAGUE
	9604987	DROSSEL	THROTTLE	CLAPET D'ÉTRANGLEMENT
*	9508219	O-RING	O-RING	BAGUE
V	9522402	DICHTUNGSSATZ	PACKING	JOINT
*	9522401	PUMPENLAUFRAD	PUMP WHEEL	ROUE DE POMPE

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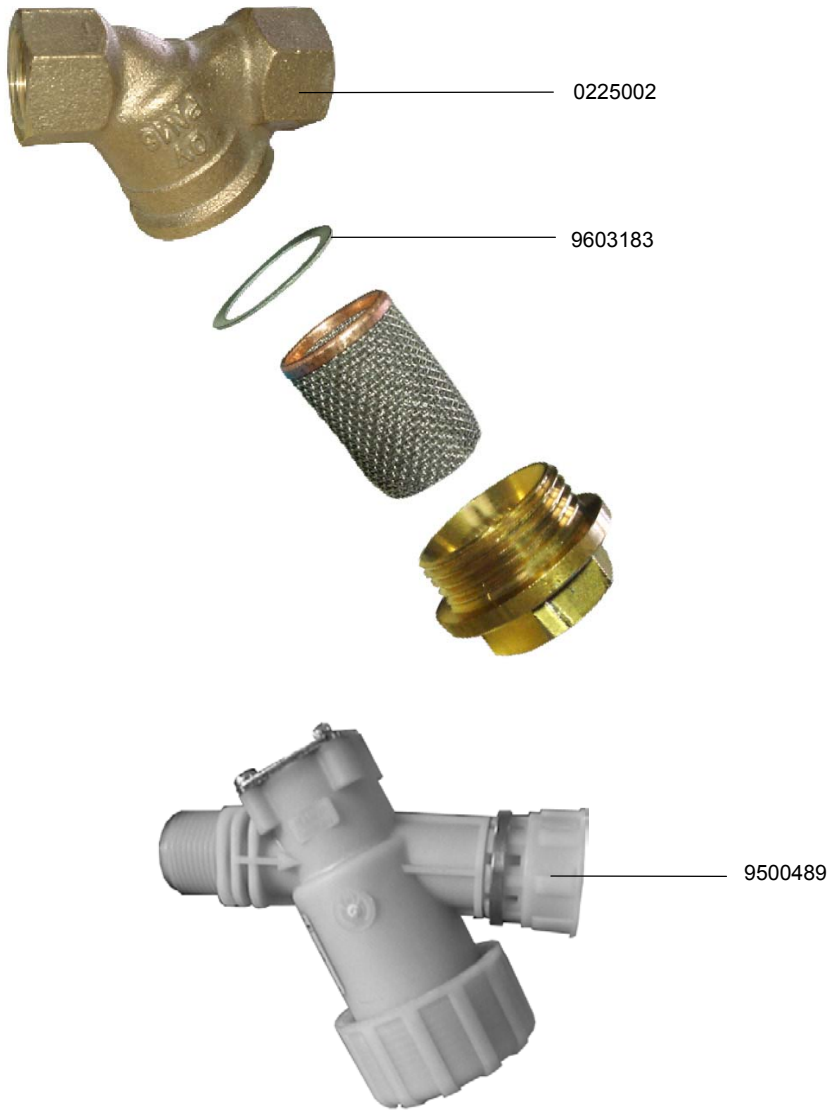
9.2 FILTER

9.2 FILTER

9.2 FILTRE



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	0225002	SCHMUTZFÄNGER ½“	DIRT TRAP ½“	COLLECTEUR DE BOUE ½“
V	9603183	DICHTUNG	SEAL	GARNITURE D'ÉTANCHÉITÉ
	9500489	SCHMUTZFÄNGER ¾“	DIRT TRAP ¾“	COLLECTEUR DE BOUE ¾“

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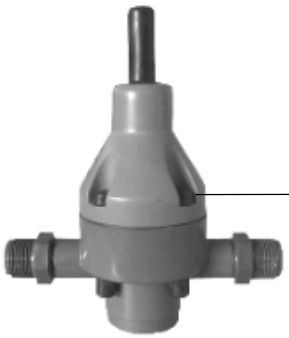
9.3 DRUCKMINDERVENTIL

9.3 PRESSURE REDUCING VALVE

9.3 REDUCTEUR DE PRESSION



0232080

9500401

0232081

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
*	0232081	DRUCKMINDERVENTIL D06FN-1/2“ A	PRESSURE REDUCING VALVE D06FN-1/2“ A	REDUCTEUR DE PRESSION D06FN-1/2“ A
*	9500401	DRUCKMINDERVENTIL DN 10 0,5-9 BAR 3/4“	PRESSURE REDUCING VALVE DN 10 0,5-9 BAR 3/4“	COLLECTEUR DE BOUE DN 10 0,5-9 BAR 3/4“
*	0232080	DRUCKMINDERVENTIL DMV 750 DN 10 1-9 BAR KOMPLETT	PRESSURE REDUCING VALVE DMV 750; DN 10 1-9 BAR	COLLECTEUR DE BOUE DMV 750; DN 10 1-9 BAR

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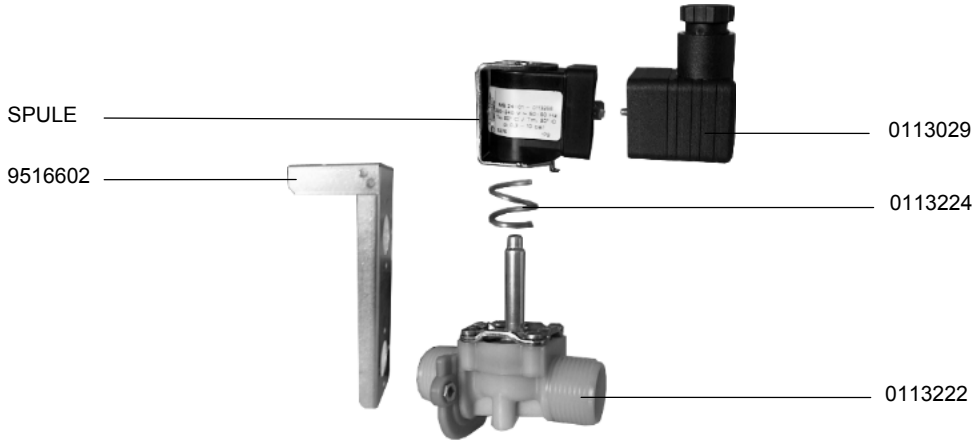
9.4 MAGNETVENTIL

9.4 SOLENOID VALVE

9.4 ELECTROVANNE



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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9.4 MAGNETVENTIL

9.4 SOLENOID VALVE

9.4 ELECTROVANNE

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
*	9500227	MAGNETVENTIL	SOLENOID VALVE	ELECTROVANNE
*	0113312	MAGNETVENTIL	SOLENOID VALVE	ELECTROVANNE
*	0113222	MAGNETVENTIL	SOLENOID VALVE	ELECTROVANNE
*	0113224	FEDER	SPRING	RESSORT
	0113029	STECKBÜCHSE	TIP JACK	FICHE FEMELLE
	SPULE	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAMM	VOIR SCHEMA ELECTRIQUE
	9516602	HALTERUNG	BRACKET	FIXATION

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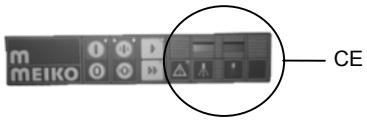
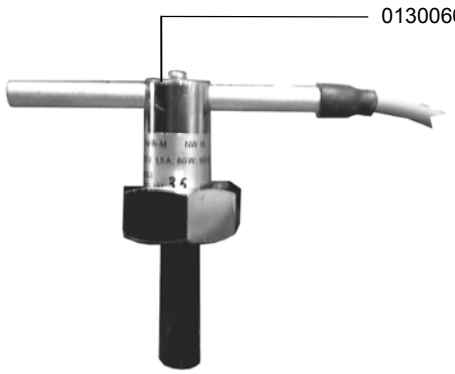
9.5 DURCHFLUSSMESSER

9.5 FLOW CONTROL

9.5 DEBIT METRE





IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
* 0130060	AUSTAUSCHWÄCHTER KPL.	DRY RUN PROTECTION CPL.	PROTECTEUR DE CHAUFFAGE
* 9617958	DURCHFLUSSMESSER	FLOW CONTROL	DEBIT METRE
* 0408106	FLACHDICHTUNG	FLAT PACKING	GARNITURE PLATE

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9.6 ÜBERDRUCKVENTIL

9.6 OVERPRESSURE VALVE

9.6 SOUPAPE DE SURPRESSION

0232001
0232002

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
*	0232001	SICHERHEITSVENTIL ½“	OVERPRESSURE VALVE ½“	SOUPAPE DE SURPRESSION ½“
*	0232002	SICHERHEITSVENTIL ¾“	OVERPRESSURE VALVE ¾“	SOUPAPE DE SURPRESSION ¾“

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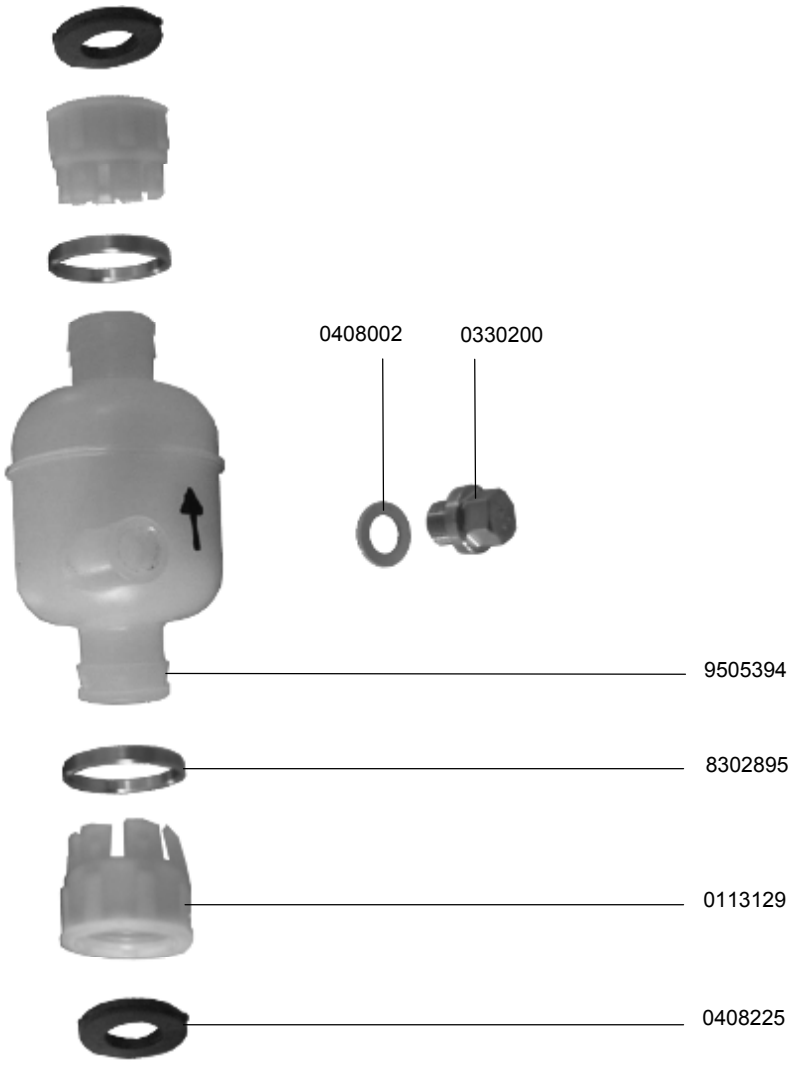
9.7 NETZMITTELMISCHBEHÄLTER

9.7 RINSE-AID MIXING CHAMBER

9.7 RESERVOIR DE MELANGE DE PRODUIT DE RINCAGE



IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
9513107	**MISCHBEHÄLTER KPL.**	**MIXING CHAMBER CPL.**	**RESERVOIR DE MELANGE CPL.**
0408225	DICHTUNG	PACKING	JOINT
0113129	ANSCHLUSSTÜCK	CONNECTION PART	PIECE DE CONNEXION
8302895	HALTERING	RING	BAGUE
9505394	MISCHBEHÄLTER	MIXING CHAMBER	RESERVOIR DE MELANGE
0330200	VERSCHLUSSRAUBE 1/8“	SCREW 1/8“	VIS 1/8“
0408002	DICHTUNG	PACKING	JOINT

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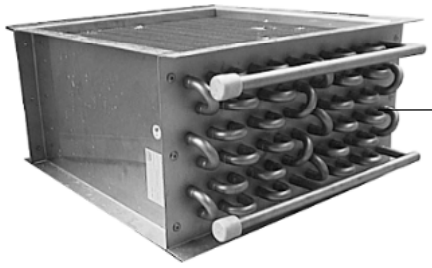
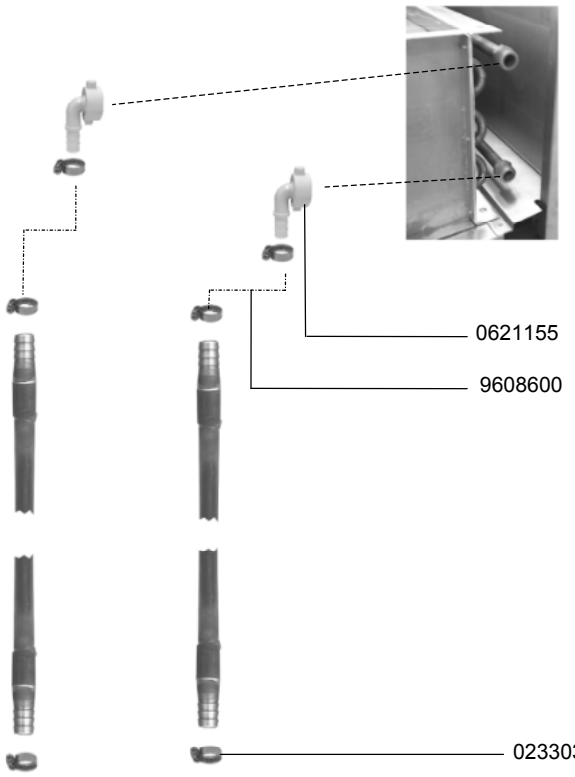
9.8 WÄRMETAUSCHER

9.8 HEAT EXCHANGER

9.8 ECHANGEUR DE CHALEUR



0254026 / 1.4435
9623385 / Cu



0621155

9608600

0233035

IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
0233035	SCHLAUCHKLEMME 12-20	HOSE WIRE CLAMP 12-20	COLLIER DE SERRAGE 12-20
9608600	SCHLAUCH ½“	HOSE ½“	TUYAU ½“
0621155	ANSCHLUSSWINKEL	CONNECTION ANGLE	ANGLE DE CONNEXION
0254026	KÜHLER 1.4435	COOLER 1.4435	REFROIDISSEUR 1.4435
9623385	KÜHLER CU	COOLER CU	REFROIDISSEUR CU

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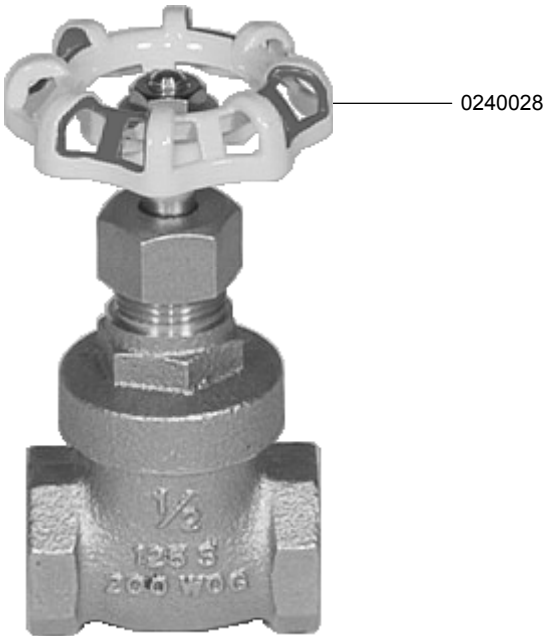
9.9 ABSPERRSCHIEBER

9.9 STOP BAFFLE

9.9 CLAPET DE ARRET



IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
0240028	ABSPERRSCHIEBER	STOP BAFFLE	CLAPET DE ARRET

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9.10 MENGENREGLER

9.10 FLOW REGULATOR

9.10 REGULATEUR DE DEBIT

IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
0232067	MENGENREGLER DURCHFLUSS - 360L/H	FLOW REGULATOR FLOW 360L/H	REGULATEUR DE DEBIT DEBIT 360L/H

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Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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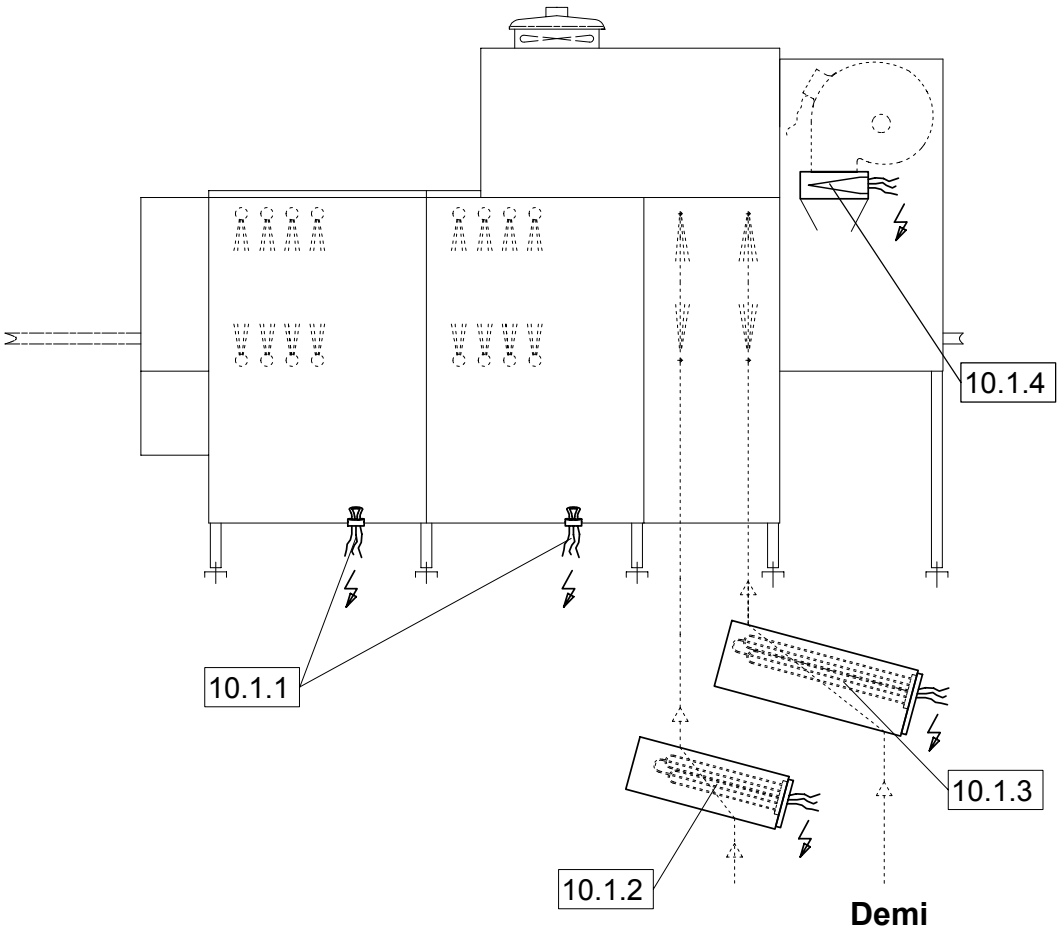
10.1 ELEKTROBEHEIZUNG

10.1 ELECTRICAL HEATING

10.1 CHAUFFAGE ELECTRIQUE



POS.	BEZEICHNUNG	DESIGNATION	DESIGNATION
10.1.1	TANKHEIZUNG ELEKTRISCH	TANK HEATING ELECTRICAL	RESISTANCE DU BAC ELECTRIQUE
10.1.2	BOILER	BOILER	SURCHAUFFEUR
10.1.3	BOILER	BOILER	SURCHAUFFEUR
10.1.4	TROCKNUNGSHEIZREGISTER	HEATING REGISTER	REGISTRE DE CHAUFFAGE

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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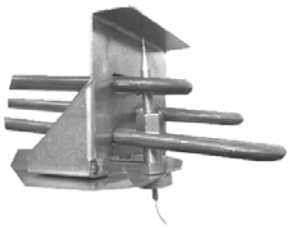
10.1.1 TANKHEIZUNG, ELEKTRISCH

10.1.1 TANK HEATING ELEMENT, ELECTRICAL

10.1.1 RESISTANCE DU BAC, ELECTRIQUE



0108024

0401048

8101245

HEIZUNG

9500473

9532356 /
only used for
the USA

9532401

9502591

9502573

9502586

9502574

0335008

9524393

0408002

9502589

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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10.1.1 TANKHEIZUNG, ELEKTRISCH

10.1.1 TANK HEATING ELEMENT, ELECTRICAL

10.1.1 RESISTANCE DU BAC, ELECTRIQUE

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	0108024	LEITFÄHIGKEITSPASTE	CONDUCTIVE PASTE	PATE DE CONDUCTION
	HEIZUNG	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
*	9532356	O-RING	O-RING	BAGUE
	9532401	HEIZSTABABDECKUNG	HEATING ELEMENT COVERED	ELEMENT DE CHAUFFAGE RECOUVERT
	0335008	SKT.MUTTER M5	HEXAGON NUT M5	ECROU A 6 PANS M5
	9524393	VERSCHRAUBUNG	SCREWING	VISSAGE
	9502589	SKT.MUTTER 1/8“	HEXAGON NUT 1/8“	ECROU A 6 PANS 1/8“
	0408002	DICHTUNG	PACKING	JOINT
	9502574	VERSCHRAUBUNG	SCREWING	VISSAGE
*	9502586	O-RING	O-RING	BAGUE
	9502573	SCHEIBE	DISK	DISQUE
	9502591	ÜBERWURFMUTTER M12	SLEEVE NUT M12	ECROU RACCORD M12
*	9500473	TEMPERATURFÜHLER	TEMPERATURE PROBE	SONDE DE TEMPERATURE
	8101245	BEFESTIGUNG	FIXATION	FIXATION
*	0401048	O-RING	O-RING	BAGUE

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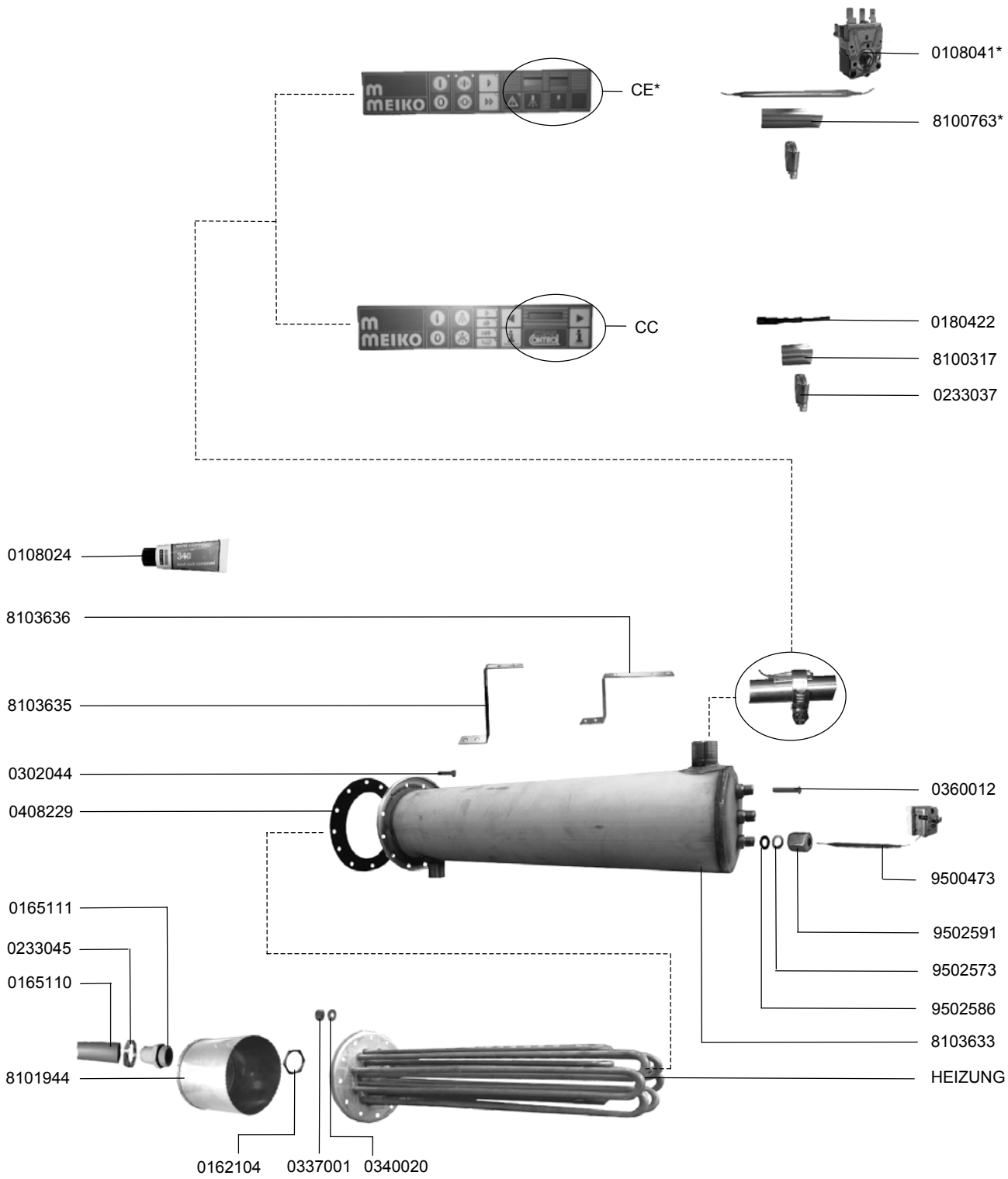
10.1.2 DURCHLAUFWASSERERWÄRMER

10.1.2 BOILER

10.1.2 SURCHAFFEUR



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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10.1.2 DURCHLAUFWASSERERWÄRMER

10.1.2 BOILER

10.1.2 SURCHAFFEUR

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	HEIZUNG	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAMM	VOIR SCHEMA ELECTRIQUE
	8103633	BOILER	BOILER	SURCHAUFFEUR
*	9502586	O-RING	O-RING	BAGUE
	9502573	SCHEIBE	DISK	DISQUE
*	9500473	TEMPERATURBEGRENZER	TEMPERATURE LIMITER	LIMITEUR DE TEMPERATURE
	9502591	ÜBERWURFMUTTER	SLEEVE NUT	ECROU RACCORD
	0360012	HALBRUNDNIET	ROUND HEAD RIVET	RIVET A TETE RONDE
	0233037	SCHLAUCHKLEMME 16-27	HOSE WIRE CLAMP 16-27	COLLIER DE SERRAGE 16-27
	8100317	BEFESTIGUNGSBLECH	FIXATION	FIXATION
	0180422	KABELBAUM	CABLE HARNESS	HARNAIS DE CABLES
	8100763	BEFESTIGUNG	HOLDER	FIXATION
*	0108041	TEMPERATURBEGRENZER	TEMPERATURE LIMITER	LIMITEUR DE TEMPERATURE
	0108024	LEITFÄHIGKEITSPASTE	CONDUCTIVE PASTE	PATE DE CONDUCTION
	8103636	BEFESTIGUNGSWINKEL	FIXATION ANGLE	ANGLE DE FIXATION
	8103635	BEFESTIGUNGSWINKEL	FIXATION ANGLE	ANGLE DE FIXATION
	0302044	SCHRAUBE M6X110	SCREW M6X110	VIS M6X110
	0408229	DICHTUNG	PACKING	JOINT
	0165111	VERSCHRAUBUNG	SCREWING	VISSAGE
	0233045	SCHLAUCHKLEMME 20-32	HOSE WIRE CLAMP 20-32	COLLIER DE SERRAGE 20-32
	0165110	SCHLAUCH	HOSE	TUYAU
	8101944	SCHUTZABDECKUNG	PROTECTION COVER	RECOUVREMENT DE PROTECTION
	0162104	GEGENMUTTER	COUNTERNUT	CONTRE-ECROU
	0337001	SKT.MUTTER M5	HEXAGONE NUT M5	ECROU A 6 PANS M5
	0340020	SCHEIBE	DISK	DISQUE

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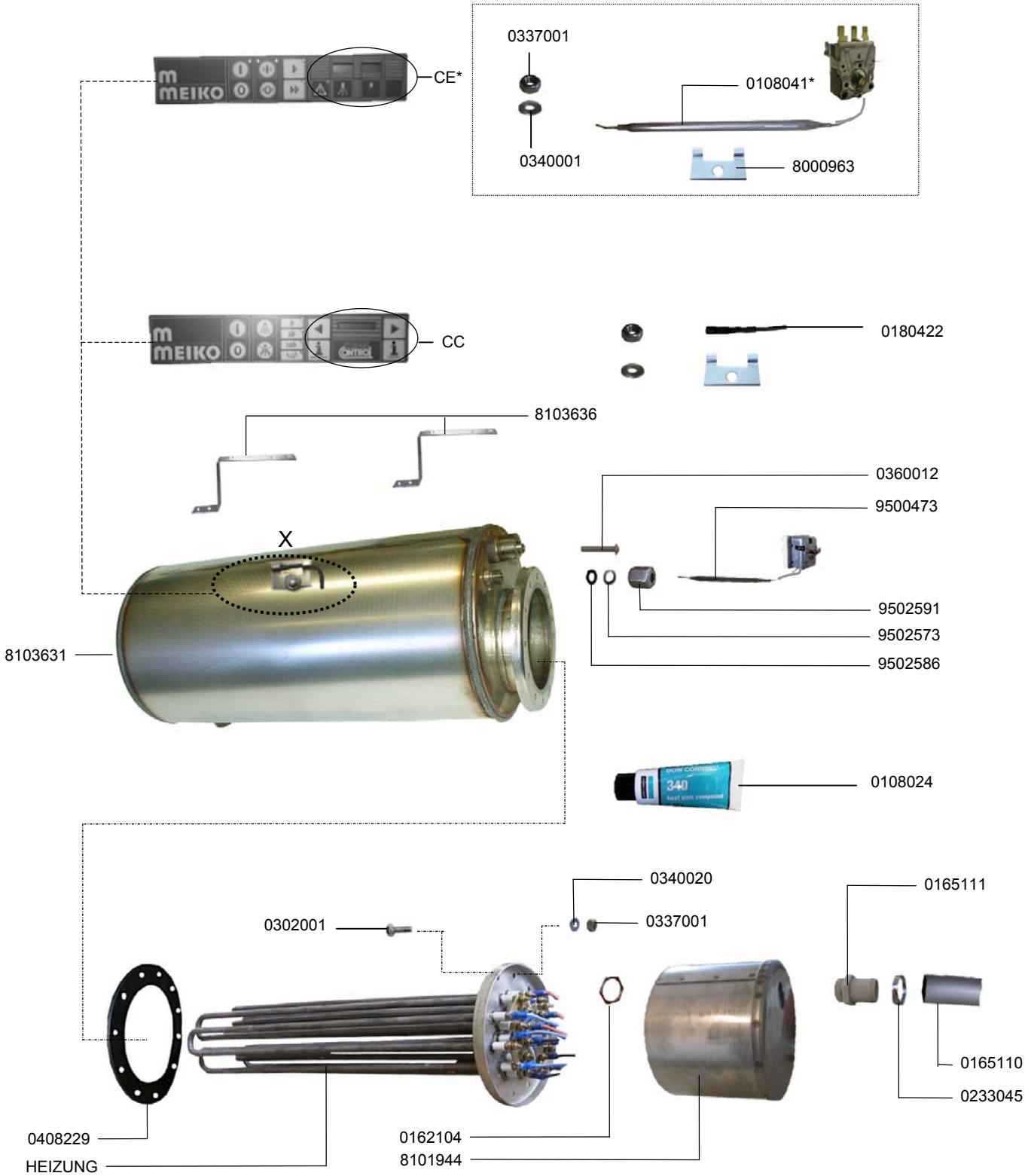
10.1.3.1 DURCHLAUFWASSERERWÄRMER

10.1.3.1 BOILER

10.1.3.1 SURCHAFFEUR



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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10.1.3.1 DURCHLAUFWASSERERWÄRMER

10.1.3.1 BOILER

10.1.3.1 SURCHAFFEUR

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	8101944	SCHUTZABDECKUNG	PROTECTION COVER	RECOUVREMENT DE PROTECTION
	0165111	VERSCHRAUBUNG	SCREWING	VISSAGE
	0165110	SCHLAUCH	HOSE	TUYAU
	0233045	SCHLAUCHKLEMME 20-32	HOSE WIRE CLAMP 20-32	COLLIER DE SERRAGE 20-32
*	9502586	O-RING	O-RING	BAGUE
	9502573	SCHEIBE	DISK	DISQUE
	9502591	ÜBERWURFMUTTER	SLEEVE NUT	ECROU RACCORD
*	9500473	TEMPERATURBEGRENZER	TEMPERATURE LIMITER	LIMITEUR DE TEMPERATURE
	0360012	HALBRUNDNIET	ROUND HEAD RIVET	RIVET A TETE RONDE
	8000963	HALTER	FIXATION	FIXATION
	0180422	KABELBAUM	CABLE HARNESS	HARNAIS DE CABLES
	0340001	SCHEIBE	DISK	DISQUE
	0337001	SKT.MUTTER M5	HEXAGONE NUT M5	ECROU A 6 PANS M5
*	0108041	TEMPERATURFÜHLER	TEMPERATURE PROBE	SONDE DE TEMPERATURE
	0108024	LEITFÄHIGKEITSPASTE	CONDUCTIVE PASTE	PATE DE CONDUCTION
	8103636	BEFESTIGUNGSWINKEL	FIXATION ANGLE	ANGLE DE FIXATION
	8103631	BOILER	BOILER	SURCHAUFFEUR
	0408229	DICHTUNG	PACKING	JOINT
	HEIZUNG	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	0340020	SCHEIBE	DISK	DISQUE
	0337001	SKT.MUTTER M5	HEXAGONE NUT M5	ECROU A 6 PANS M5
	0162104	GEGENMUTTER	COUNTERNUT	CONTRE-ECROU

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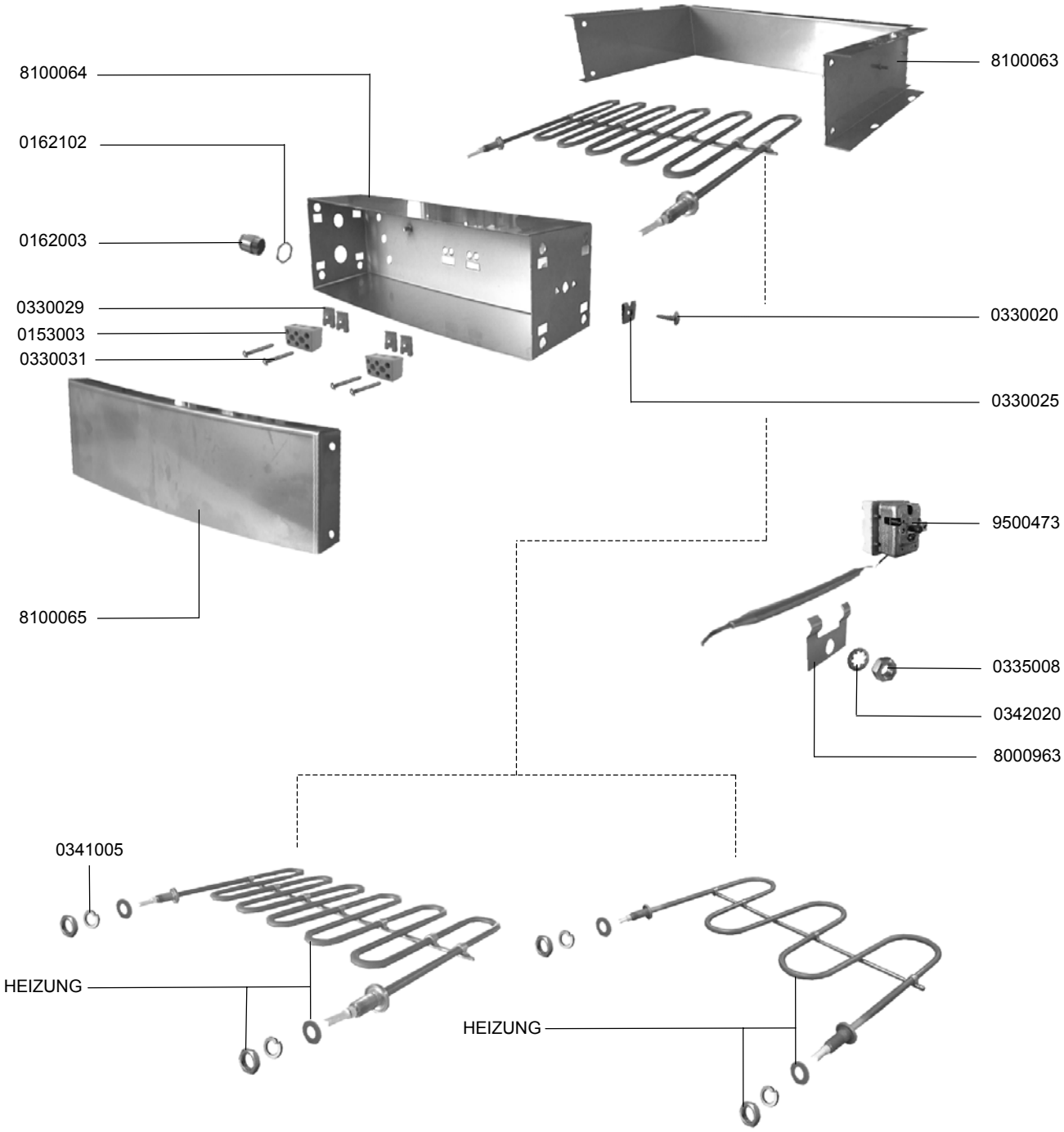
10.1.4 TROCKNUNGSHEIZREGISTER

10.1.4 DRYING-HEATING REGISTER

10.1.4 REGISTRE DE CHAUFFAGE-SECHAGE



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10.1.4 TROCKNUNGSHEIZREGISTER

10.1.4 DRYING-HEATING REGISTER

10.1.4 REGISTRE DE CHAUFFAGE-SECHAGE

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	8000963	HALTER	FIXATION	FIXATION
	0342020	ZAHNSCHEIBE	TOOTH LOCK WASHER	RONDELLE A FENTE
	0335008	MUTTER M5	NUT M5	ECROU M5
*	9500473	TEMPERATURFÜHLER	TEMPERATURE PROBE	SONDE DE TEMPERATURE
	0330025	BLECHMUTTER	NUT	ECROU
	0330020	SCHRAUBE 4,2X13	SCREW 4,2X13	VIS 4,2X13
	8100063	MANTEL	CLADDING	HABILLAGE
	8100064	HEIZKÖRPERBLECH	HEATING REGISTER HOUSING	CAISSON DE RESISTANCE
	0162102	GEGENMUTTER	COUNTERNUT	CONTRE-ECROU
	0162003	VERSCHRAUBUNG	SCREWING	VISSAGE
	0330029	KLAMMER	CLAMP	BRIDE DE FIXATION
	0153003	ANSCHLUSSKLEMME	CONNECTING TERMINAL	BORNE
	0330031	SCHRAUBE 2,9X22	SCREW 2,9X22	VIS 2,9X22
	8100065	ABDECKBLECH	COVER	COUVERCLE
	0341005	FEDERRING	SPRING RING	BAGUE DE RESSORT
	HEIZUNG	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE

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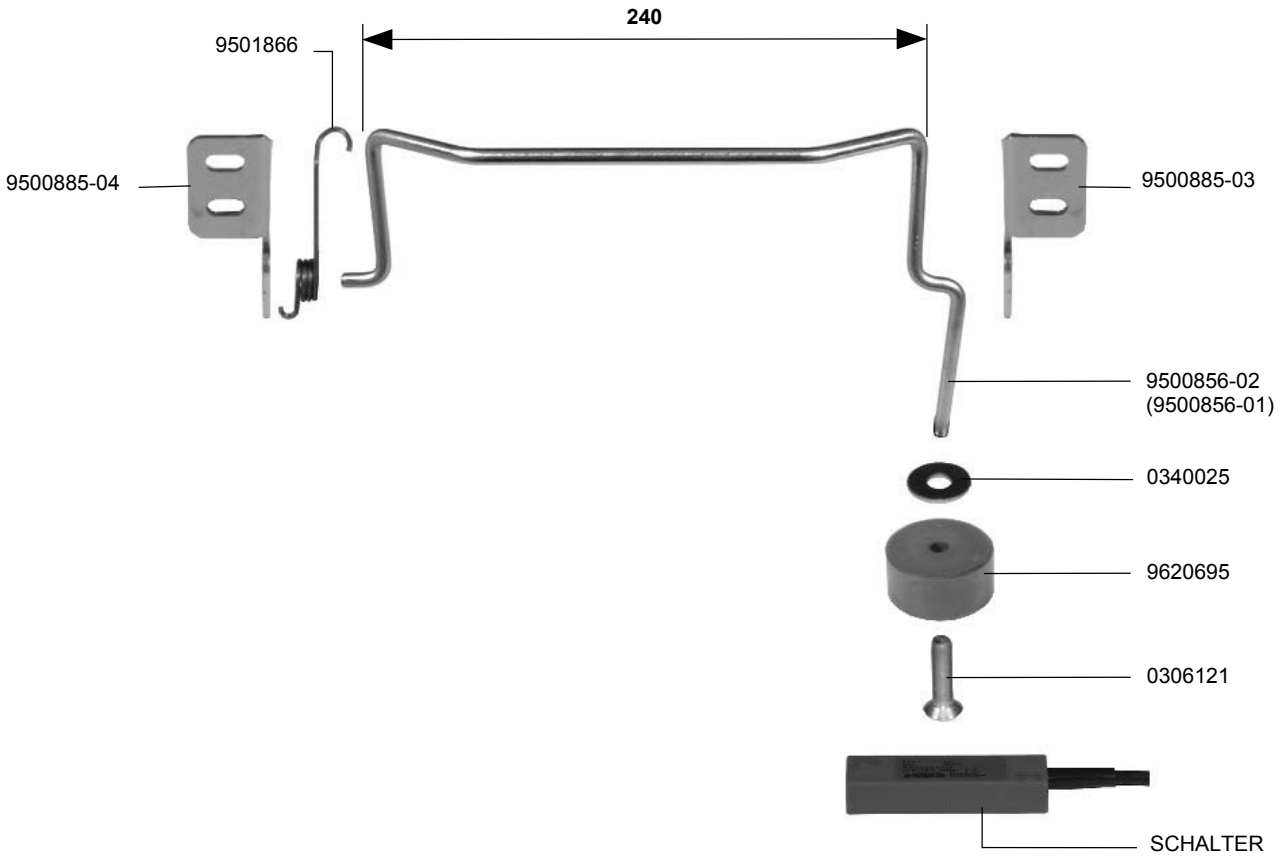
11 TAKTSCHALTER

11 INTERVAL SWITCH

11 INTERRUPTEUR DE SYNCHRONISATION



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	SCHALTER	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	0306121	SENKSCHRAUBE M5X20	FLAT HEAD SCREW M5X20	VIS A TETE FRAISEE M5X20
	9620695	RINGMAGNET	RING MAGNET	AIMANT ROND
	0340025	UNTERLEGSCHEIBE	SUPPORT DISK	DISQUE
	9500856-01	SCHALTSCHLEIFER L-R NICHT ABGEBILDET	SLIDER SWITCH L-R NOT DISPLAYED	INTERRUPTEUR ECONOMISEUR G-D PAS D'IMAGE
	9500856-02	SCHALTSCHLEIFER R-L	SLIDER SWITCH R-L	INTERRUPTEUR ECONOMISEUR D-G
	9500885-03	LAGERWINKEL	BEARING ANGLE	ANGLE DE LOGEMENT
	9500885-04	LAGERWINKEL	BEARING ANGLE	ANGLE DE LOGEMENT
*	9501866	SCHENKELFEDER	TORSION SPRING	RESSORT DE TORSION

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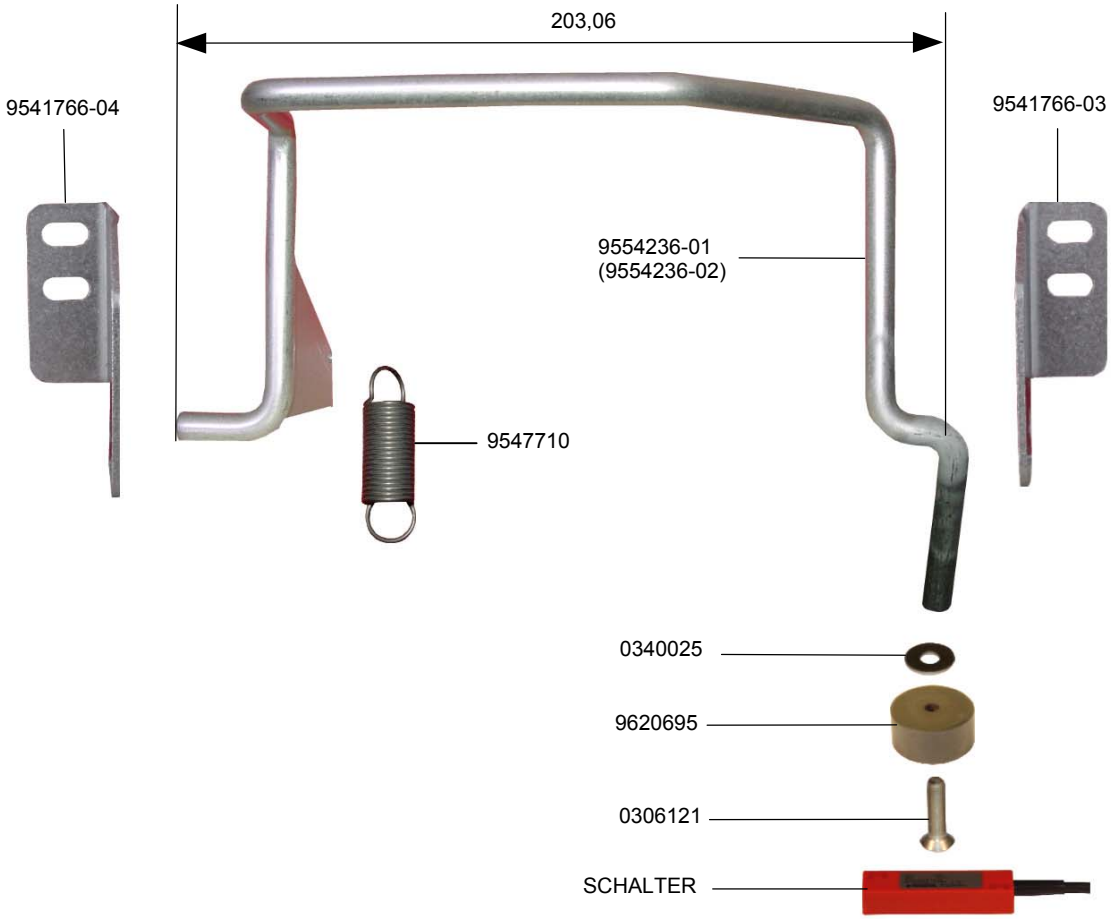
11.1 TAKTSCHALTER

11.1 INTERVAL SWITCH

11.1 INTERRUPTEUR DE SYNCHRONISATION



IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	GÜLTIG AB 01.10.2004	VALID FROM 01.10.2004	VALABLE A PARTIR DE 01.10.2004
SCHALTER	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
9611352	SENKSCHRAUBE M5X20	FLAT HEAD SCREW M5X20	VIS A TETE FRAISEE M5X20
9620695	RINGMAGNET	RING MAGNET	AIMANT ROND
0340025	UNTERLEGSCHEIBE	SUPPORT DISK	DISQUE
9554236-01	SCHALTSCHLEIFER L-R	SLIDER SWITCH L-R	INTERRUPTEUR ECONOMISEUR G-D
9554236-02	SCHALTSCHLEIFER R-L NICHT ABGEBILDET	SLIDER SWITCH R-L NOT DISPLAYED	INTERRUPTEUR ECONOMISEUR D-G PAS D'IMAGE
9541766-03	LAGERWINKEL	BEARING ANGLE	ANGLE DE LOGEMENT
9541766-04	LAGERWINKEL	BEARING ANGLE	ANGLE DE LOGEMENT
* 9547710	ZUGFEDER	TENSION SPRING	RESSORT DE TENSIONS

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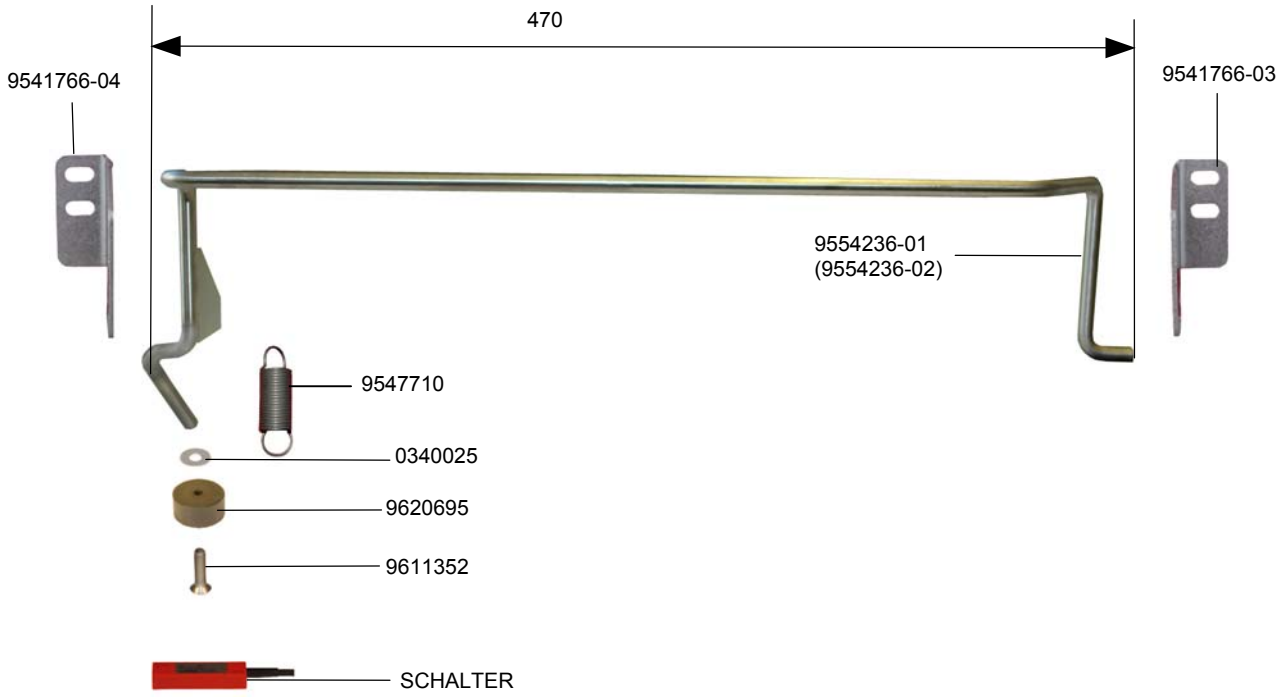
11.2 TAKTSCHALTER

11.2 INTERVAL SWITCH

11.2 INTERRUPTEUR DE SYNCHRONISATION



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	SCHALTER	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	9611352	SENKSCHRAUBE M5X20	FLAT HEAD SCREW M5X20	VIS A TETE FRAISEE M5X20
	9620695	RINGMAGNET	RING MAGNET	AIMANT ROND
	0340025	UNTERLEGSCHEIBE	SUPPORT DISK	DISQUE
	9620573-01	SCHALTSCHLEIFER L-R	SLIDER SWITCH L-R	INTERRUPTEUR ECONOMISEUR G-D
	9620573-02	SCHALTSCHLEIFER R-L NICHT ABGEBILDET	SLIDER SWITCH R-L NOT DISPLAYED	INTERRUPTEUR ECONOMISEUR D-G PAS D'IMAGE
	9541766-03	LAGERWINKEL	BEARING ANGLE	ANGLE DE LOGEMENT
	9541766-04	LAGERWINKEL	BEARING ANGLE	ANGLE DE LOGEMENT
*	9547710	ZUGFEDER	TENSION SPRING	RESSORT DE TENSIONS

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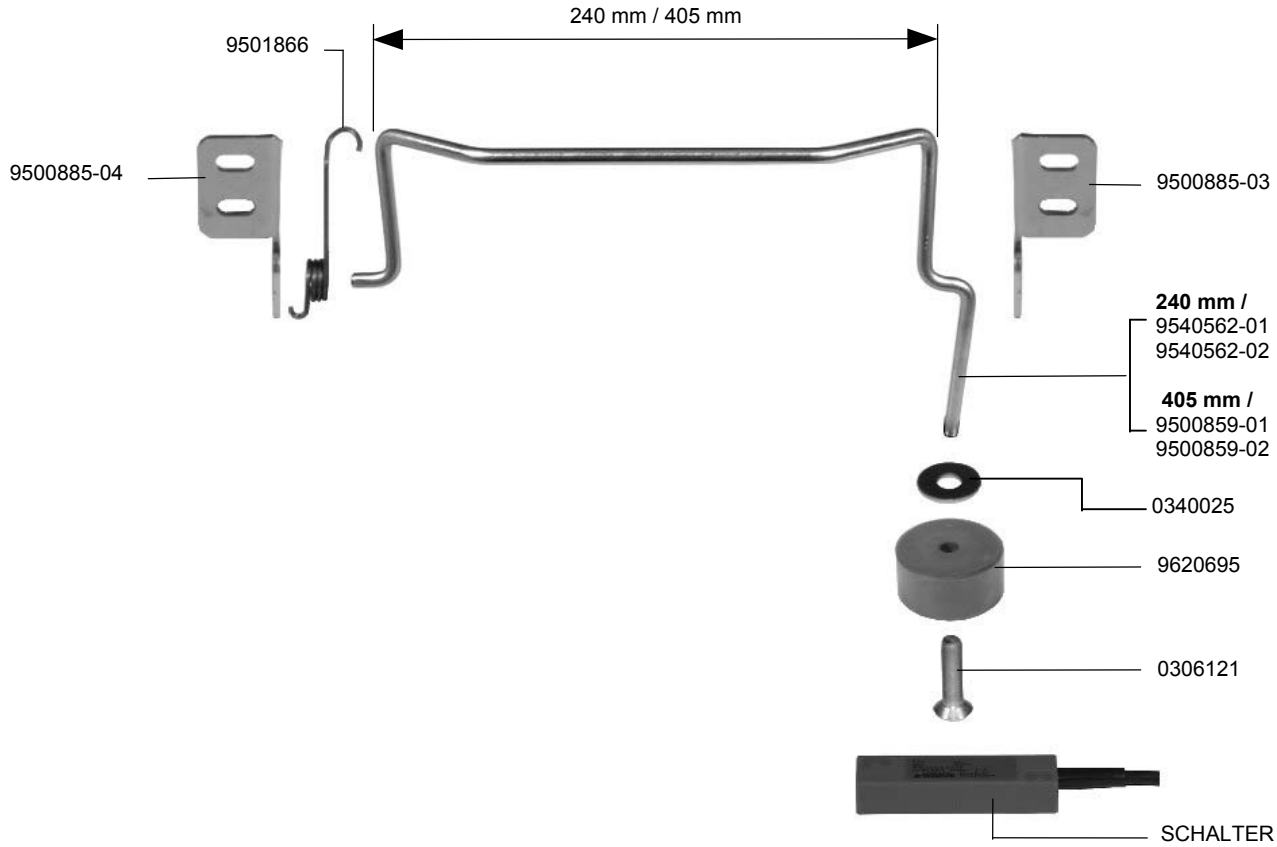
12.0 FRISCHWASSERSPARSCHALTER

12.0 FRESH WATER SAVING DEVICE

12.0 INT. ECONOMISEUR - EAU DE RINCAGE



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	SCHALTER	SIEHE ELEKTROSCHALTPLAN	SEE ELEKTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	0306121	SENKSCHRAUBE M5X20	FLAT HEAD SCREW M5X20	VIS A TETE FRAISEE M5X20
	9620695	RINGMAGNET	RING MAGNET	AIMANT ROND
	0340025	UNTERLEGSCHEIBE	SUPPORT DISK	DISQUE
	9540562-01	SCHALTSCHLEIFER L-R	SLIDER SWITCH L-R	INTERRUPTEUR ECONOMISEUR G-D
	9540562-02	SCHALTSCHLEIFER R-L NICHT ABGEBILDET	SLIDER SWITCH R-L NOT DISPLAYED	INTERRUPTEUR ECONOMISEUR D-G PAS D' IMAGE
	9500859-01	SCHALTSCHLEIFER L-R	SLIDER SWITCH L-R	INTERRUPTEUR ECONOMISEUR G-D
	9500859-02	SCHALTSCHLEIFER R-L NICHT ABGEBILDET	SLIDER SWITCH R-L NOT DISPLAYED	INTERRUPTEUR ECONOMISEUR D-G PAS D' IMAGE
	9500885-03	LAGERWINKEL	BEARING ANGLE	ANGLE DE LOGEMENT
	9500885-04	LAGERWINKEL	BEARING ANGLE	ANGLE DE LOGEMENT
*	9501866	SCHENKELFEDER	TORSION SPRING	RESSORT DE TORSION

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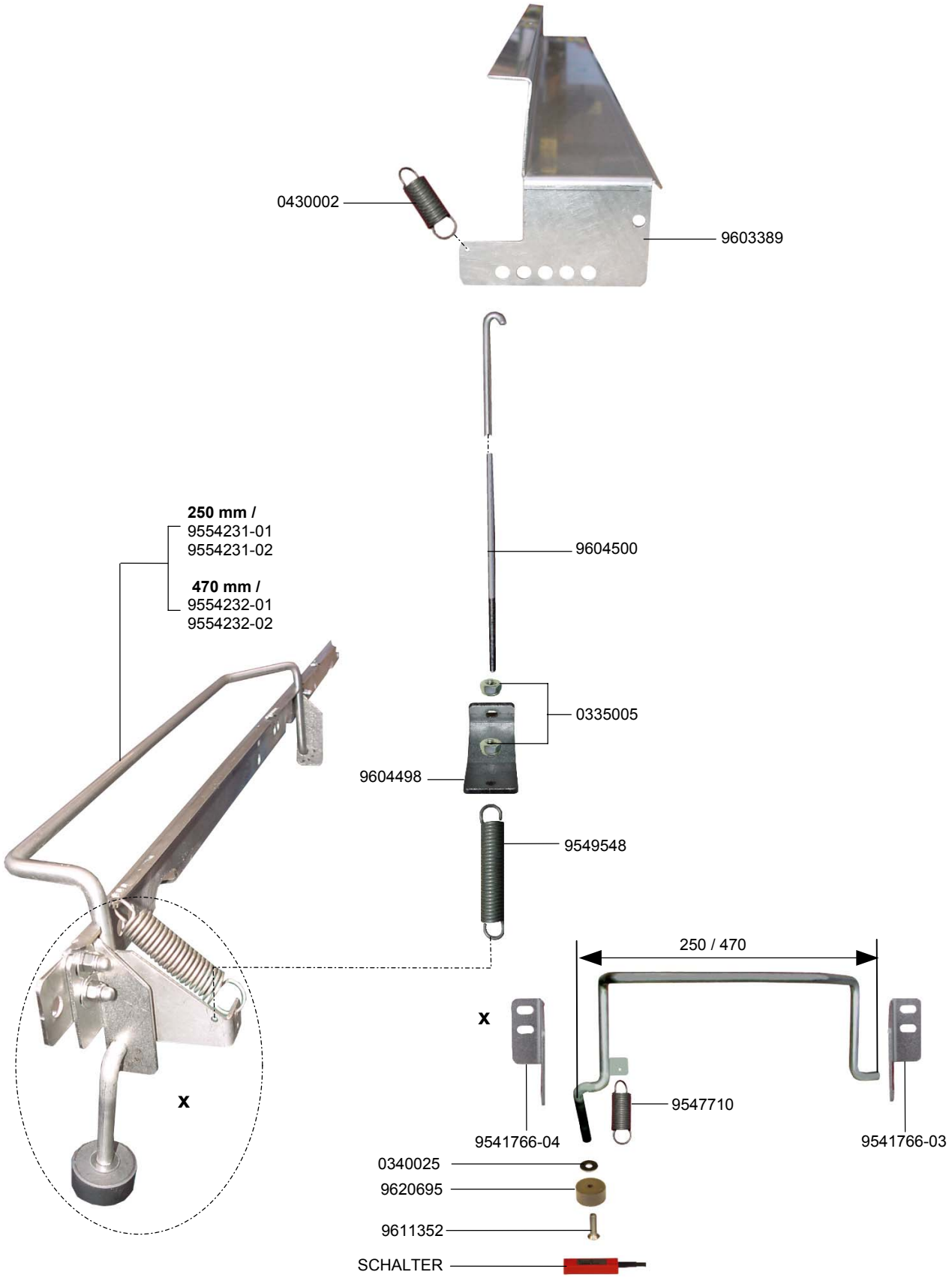
12.1 FRISCHWASSERSPARSCHALTER

12.1 FRESH WATER SAVING DEVICE

12.1 INT. ECONOMISEUR - EAU DE RINCAGE



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12.1 FRISCHWASSERSPARSCHALTER

12.1 FRESH WATER SAVING DEVICE

12.1 INT. ECONOMISEUR - EAU DE RINCAGE

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
		GÜLTIG AB 01.10.2004	VALID FROM 01.10.2004	VALABLE A PARTIR DE 01.10.2004
	SCHALTER	SIEHE ELEKTROSCHALTPLAN	SEE ELEKTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	9611352	SENKSCHRAUBE M5X20	FLAT HEAD SCREW M5X20	VIS A TETE FRAISEE M5X20
	9620695	RINGMAGNET	RING MAGNET	AIMANT ROND
	0340025	UNTERLEGSCHEIBE	SUPPORT DISK	DISQUE
*	9547710	ZUGFEDER DE 15,4; LO 49; D 1,4	TENSION SPRING DE 15,4; LO 49; D 1,4	RESSORT DE TENSIONS DE 15,4; LO 49; D 1,4
	9554231-01	SCHALTSCHLEIFER	SLIDER SWITCH L-R	INTERRUPTEUR ECONOMISEUR G-D
	9554231-02	SCHALTSCHLEIFER R-L NICHT ABGEBILDET	SLIDER SWITCH R-L NOT DISPLAYED	INTERRUPTEUR ECONOMISEUR D-G PAS D' IMAGE
	9554232-01	SCHALTSCHLEIFER L-R	SLIDER SWITCH L-R	INTERRUPTEUR ECONOMISEUR G-D
	9554232-02	SCHALTSCHLEIFER R-L NICHT ABGEBILDET	SLIDER SWITCH R-L NOT DISPLAYED	INTERRUPTEUR ECONOMISEUR D-G PAS D' IMAGE
	9541766-03	LAGERWINKEL	BEARING ANGLE	ANGLE DE LOGEMENT
	9541766-04	LAGERWINKEL	BEARING ANGLE	ANGLE DE LOGEMENT
	9549548	ZUGFEDER DE11,2 LO60,2 R2,27N/MM	TENSION SPRING DE11,2 LO60,2 R2,27N/MM	RESSORT DE TENSIONS DE11,2 LO60,2 R2,27N/MM
	0335005	SECHSKANT-MUTTER	HEXAGON NUT	ÉCROU HEXAGONAL
	9604498	HALTEBÜGEL	SUPPORT BRACKET	ETRIER DE SUPPORT
	9604500	ZUGSTANGE	DRAWBAR	BARRE D'ENTRAINEMENT
	9603389	KLAPPBLECH	FLAP SHEET	TÔLE CLAPET
	0430002	ZUGFEDER 15 X 42 X 1 MM	TENSION SPRING 15 X 42 X 1 MM	RESSORT DE TENSIONS 15 X 42 X 1 MM

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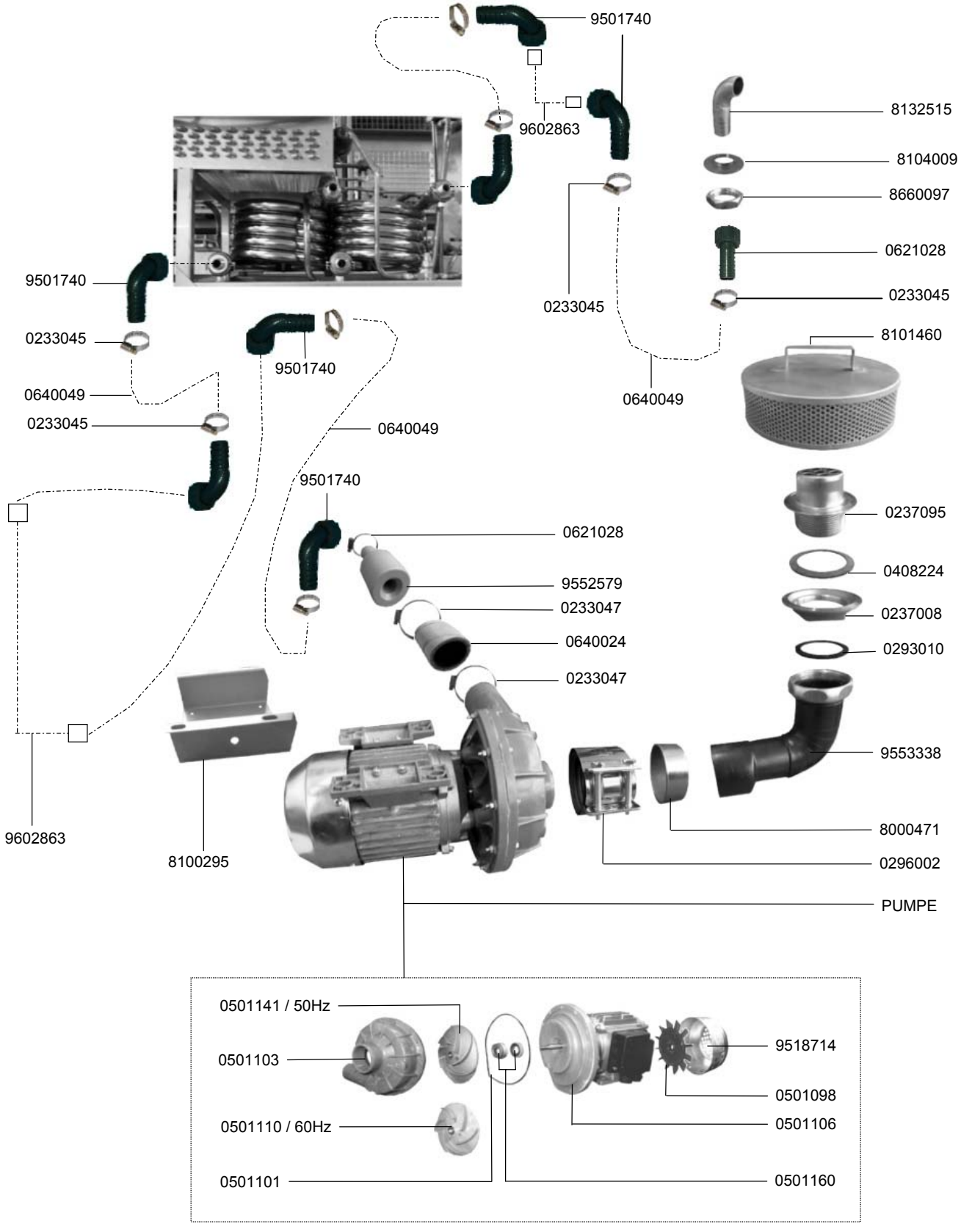
13.01 UMWÄLZPUMPE FÜR WÄRMEPUMPE

13.01 CIRCULATION PUMP FOR HEAT PUMP

13.01 POMPE DE CIRCULATION POUR POMPE A CHALEUR



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.

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13.01 UMWÄLZPUMPE FÜR WÄRMEPUMPE

13.01 CIRCULATION PUMP FOR HEAT PUMP

13.01 POMPE DE CIRCULATION POUR POMPE A CHALEUR

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	0233045	SCHLAUCHKLEMME 20-32	HOSE WIRE CLAMP 20-32	COLLIER DE SERRAGE 20-32
	0640049	SCHLAUCH 3/4" EPDM	HOSE 3/4" EPDM	TUYAU 3/4" EPDM
	8132515	FÜLLHAKEN	FILLING HOOK	CROCHET DE REMPLISSAGE
	8104009	MUTTER ¾“	NUT ¾“	ECROU ¾“
	8660097	SKT.MUTTER ¾“	HEXAGON NUT ¾“	ECROU A 6 PANS ¾“
	9501740	ANSCHLUSWINKEL ¾“	CONNECTION ANGLE ¾“	ANGLE DE CONNEXION ¾“
	8101460	ANSAUGSIEB	SUCTION SIEVE	FILTRE D’ ASPIRATION
	0237095	ANSAUGSIEB	SUCTION SIEVE	FILTRE D’ ASPIRATION
	0408224	DICHTUNG	PACKING	JOINT
	0237008	MUTTER 2“	NUT 2“	ECROU 2“
	0293010	DICHTUNG	PACKING	JOINT
	9553338	ANSAUGSTUTZEN	SUCTION PORT	MANCHON D’ ASPIRATION
	8000471	VERSTÄRKUNGSRING	SUPPORT RING	BAGUE DE SUPPORT
	0296002	VERBINDER CV	CV-CONNECTION	CONNEXION CV
	PUMPE	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SHEMA ELECTRIQUE
	9518714	LÜFTERHAUBE	FAN COWL	CAPOTAGE DE VENTILATEUR
	0501098	VENTILATORFLÜGEL	FAN WHEEL	ROUE VENTILATEUR
	0621028	ÜBERGANGSSTÜCK 3/4"X19MM	TRANSITION PIECE 3/4"X19MM	RACCORD DE REDUCTION 3/4"X19MM
	0501106	LAGERSCHILD	END SHIELD	FLASQUE
V	0501160	GLEITRINGDICHTUNG	SLIDING SEAL	JOINT AXIAL
	0501101	DICHTUNG	PACKING	JOINT
*	0501110	LAUFRAD 60HZ	IMPELLER 60HZ	ROUE DE POMPE 60HZ
	0501103	PUMPENGEHÄUSE	PUMP HOUSING	CORPS DE POMPE
*	0501141	LAUFRAD 50HZ	IMPELLER 50HZ	ROUE DE POMPE 50HZ
	0233047	SCHLAUCHKLEMME 50-70	HOSE WIRE CLAMP 50-70	COLLIER DE SERRAGE 50-70
	0640024	SCHLAUCH	HOSE	TUYAU
	9552579	ÜBERGANGSSTÜCK 3/4" X50AX75	TRANSITION PIECE 3/4" X50AX75	RACCORD DE REDUCTION 3/4" X50AX75
	8100295	KONSOLE	CONSOLE	CONSOLE
	0621028	ÜBERGANGSSTÜCK 3/4" X19	TRANSITION PIECE 3/4" X19	RACCORD DE REDUCTION 3/4" X19
	9602863	STEIGLEITUNG	ASCENDING PIPE	CONDUITE ASCENDANTE

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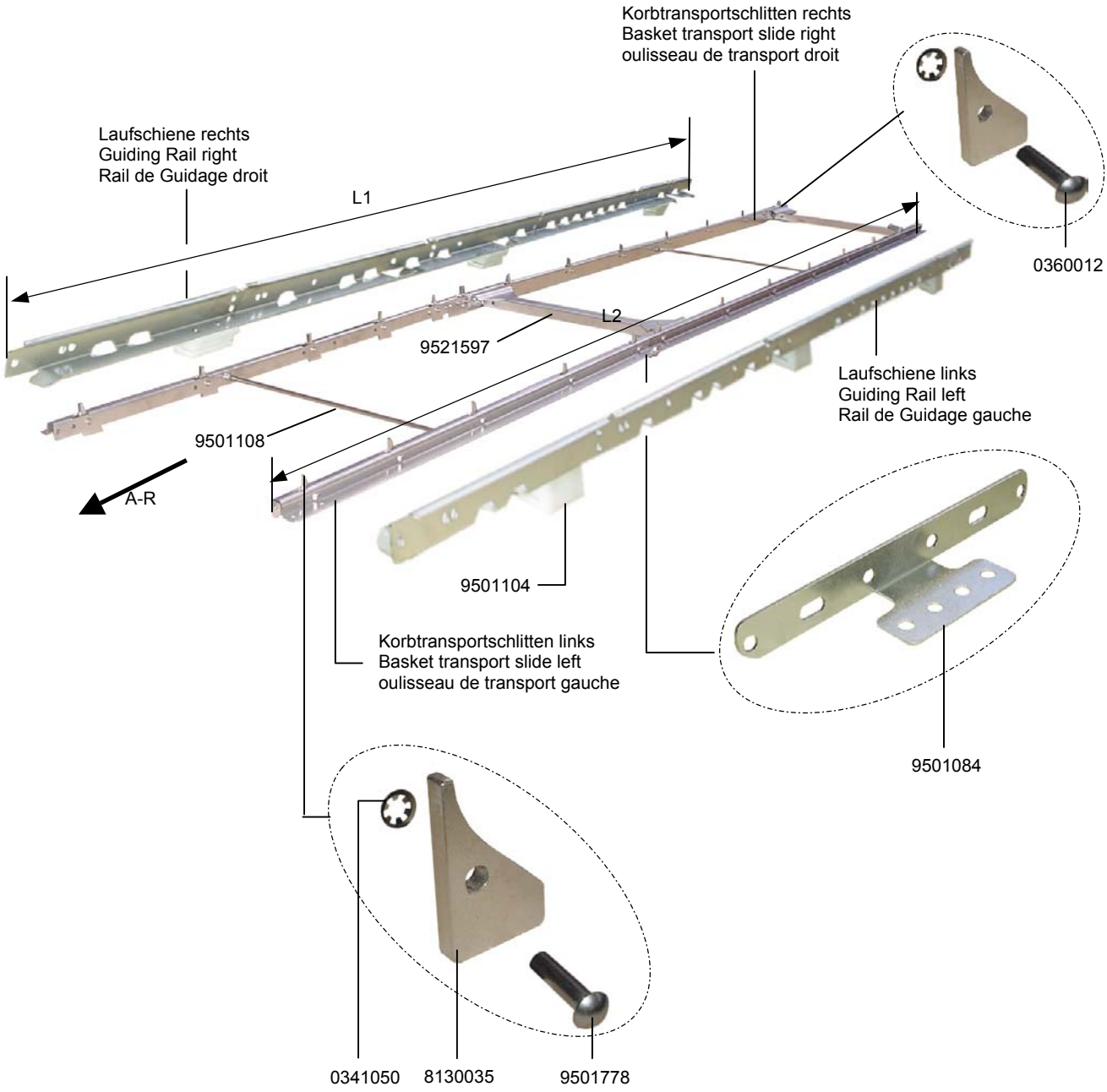
13.02 KORBTRANSPORTSCHLITTEN

13.02 BASKET TRANSPORT SLIDE

13.02 COULISSEAU DE TRANSPORT



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13.02 KORBTRANSPORTSCHLITTEN

13.02 BASKET TRANSPORT SLIDE

13.02 COULISSEAU DE TRANSPORT

IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	KORBTRANSPORTSCHLITTEN	BASKET TRANSPORT SLIDE	COULISSEAU DE TRANSPORT
9501165-03	L2=460	L2=460	L2=460
9501165-04	L2=460	L2=460	L2=460
9501174-03	L2=600	L2=600	L2=600
9501174-04	L2=600	L2=600	L2=600
9501166-03	L2=760	L2=760	L2=760
9501166-04	L2=760	L2=760	L2=760
9501171-03	L2=800	L2=800	L2=800
9501171-04	L2=800	L2=800	L2=800
9501168-03	L2=810	L2=810	L2=810
9501168-04	L2=810	L2=810	L2=810
9501175-03	L2=900	L2=900	L2=900
9501175-04	L2=900	L2=900	L2=900
9523231-03	L2=960	L2=960	L2=960
9523231-04	L2=960	L2=960	L2=960
9501169-03	L2=1110	L2=1110	L2=1110
9501169-04	L2=1110	L2=1110	L2=1110
9501167-03	L2=1160	L2=1160	L2=1160
9501167-04	L2=1160	L2=1160	L2=1160
9523232-03	L2=1260	L2=1260	L2=1260
9523232-04	L2=1260	L2=1260	L2=1260
9501179-03	L2=1326	L2=1326	L2=1326
9501179-04	L2=1326	L2=1326	L2=1326
9501172-03	L2=1366	L2=1366	L2=1366
9501172-04	L2=1366	L2=1366	L2=1366
9501170-03	L2=1510	L2=1510	L2=1510
9501170-04	L2=1510	L2=1510	L2=1510
9523233-03	L2=1660	L2=1660	L2=1660
9523233-04	L2=1660	L2=1660	L2=1660
9501178-03	L2=1676	L2=1676	L2=1676
9501178-04	L2=1676	L2=1676	L2=1676
9501177-03	L2=1726	L2=1726	L2=1726
9501177-04	L2=1726	L2=1726	L2=1726
9501173-03	L2=1766	L2=1766	L2=1766
9501173-04	L2=1766	L2=1766	L2=1766
9523235-03	L2=1826	L2=1826	L2=1826
9523235-04	L2=1826	L2=1826	L2=1826
9501176-03	L2=2076	L2=2076	L2=2076
9501176-04	L2=2076	L2=2076	L2=2076
9523234-03-04	L2=2226	L2=2226	L2=2226

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13.02 KORBTRANSPORTSCHLITTEN

13.02 BASKET TRANSPORT SLIDE

13.02 COULISSEAU DE TRANSPORT

IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	LAUFSCHINE	**GUIDING RAIL**	**RAIL DE GUIDAGE**
9501056 03	L1=800	L1=800	L1=800
9501056 04	L1=800	L1=800	L1=800
9605980 03	L1=1050	L1=1050	L1=1050
9605980 04	L1=1050	L1=1050	L1=1050
9501057 03	L1=1200	L1=1200	L1=1200
9501057 04	L1=1200	L1=1200	L1=1200
9060038 04	L1=1300	L1=1300	L1=1300
9060038 04	L1=1300	L1=1300	L1=1300
9605990 03	L1=1400	L1=1400	L1=1400
9605990 04	L1=1400	L1=1400	L1=1400
9605987 03	L1=1450	L1=1450	L1=1450
9605987 04	L1=1450	L1=1450	L1=1450
9605994 03	L1=1550	L1=1550	L1=1550
9605994 04	L1=1550	L1=1550	L1=1550
9606053 03	L1=1550 (NUR FÜR K200)	L1=1550 (ONLY FOR K200)	L1=1550 (SEULEMENT POUR K200)
9606053 04	L1=1550 (NUR FÜR K200)	L1=1550 (ONLY FOR K200)	L1=1550 (SEULEMENT POUR K200)
9606001 03	L1=1700	L1=1700	L1=1700
9606001 04	L1=1700	L1=1700	L1=1700
9605992 03	L1=1800	L1=1800	L1=1800
9605992 04	L1=1800	L1=1800	L1=1800
9606041 03	L1=1900	L1=1900	L1=1900
9606041 04	L1=1900	L1=1900	L1=1900
9606011 03	L1=1950 (NUR FÜR K200P)	L1=1950 (ONLY FOR K200P)	L1=1950 (SEULEMENT POUR K200P)
9606011 04	L1=1950 (NUR FÜR K200P)	L1=1950 (ONLY FOR K200P)	L1=1950 (SEULEMENT POUR K200P)
9605997 03	L1=1950	L1=1950	L1=1950
9605997 04	L1=1950	L1=1950	L1=1950
9606044 03	L1=2050	L1=2050	L1=2050
9606044 04	L1=2050	L1=2050	L1=2050
9606009 03	L1=2300	L1=2300	L1=2300
9606009 04	L1=2300	L1=2300	L1=2300
9604140 03	L1=2450	L1=2450	L1=2450
9604140 04	L1=2450	L1=2450	L1=2450

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13.02 KORBTRANSPORTSCHLITTEN

13.02 BASKET TRANSPORT SLIDE

13.02 COULISSEAU DE TRANSPORT

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	A-R	ARBEITSRICHTUNG	WORKING DIRECTION	SENS DE TRAVAIL
	9501778	HALBRUNDNIET 6X22	ROUND HEAD RIVET 6X22	RIVET A TÊTE RONDE 6X22
	8130035	TRANSPORTKLINKE	TRANSPORT CATCH PEG	CLIQUE DE TRANSPORT
	0341050	HALTESCHEIBE	SUPPORT DISK	DISQUE DE SUPPORT
	0360012	HALBRUNDNIET 6X30	ROUND HEAD RIVET 6X30	RIVET A TÊTE RONDE 6X30
	9501084	VERBINDUNGSTEIL	CONNECTION PART	PIECE DE CONNEXION
V	9501104	SCHLITTENFÜHRUNGSKLOTZ	CARRIAGE GUIDING BLOCK	BLOC DE GLISSOIR DE GUIDAGE
	9501108	ABSTANDSHALTER M8X440	SPREADER M8X440	ECARTEUR M8X440
	9521597	QUERTRAVERSE	CROSSARM	BARRE TRANSVERSALE

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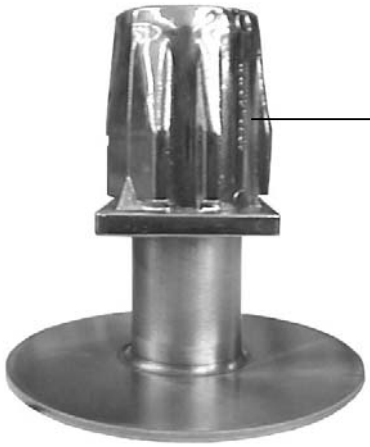
15.1.2 MASCHINENSTOLLEN

15.1.2 FEET OF MACHINE

15.1.2 PIEDS DE MACHINE



IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
9533829	TISCHSTOLLEN KPL.	TABLE FEET CPL.	PIEDS DE TABLE CPL.
0460030	STELLFUSS NIRO CAMLOCK 1015-4003-1144	STANDING FEET CAMLOCK 1015-4003-1144	PIEDS NIRO CAMLOCK 1015-4003-1144

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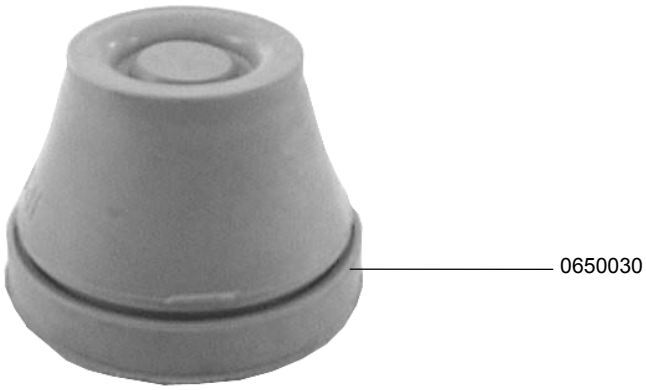
15.1.3 ROHRABDICHTUNG

15.1.3 TUBE PACKING

15.1.3 JOINT DE TUYAU



IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
0650030	KABELDURCHFÜHRUNG	CABLE DUCT	TRAVERSE DE CABLE

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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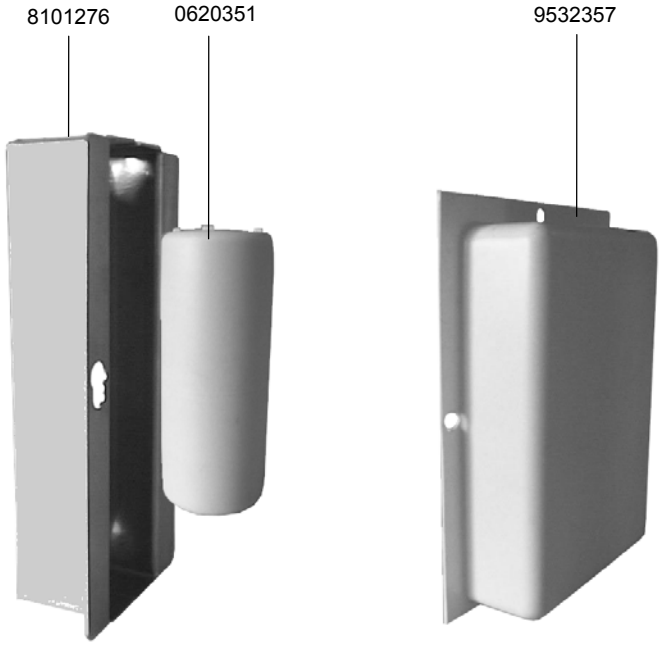
15.1.4 SCHWIMMERSCHALTER

15.1.4 FLOATING SWITCH

15.1.4 FLOTTEUR POUR NIVEAU DE BAC



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	9532357	ABDECKUNG	COVER	RECOUVREMENT
*	0620351	SCHWIMMER K 343	FLOAT, PLASTIC K 343	FLOTTEUR K 343
	8101276	SCHWIMMERFÜHRUNG 177 X 45 X 44	FLOAT GUIDE 177 X 45 X 44	GUIDAGE POUR FLOTTEUR 177 X 45 X 44

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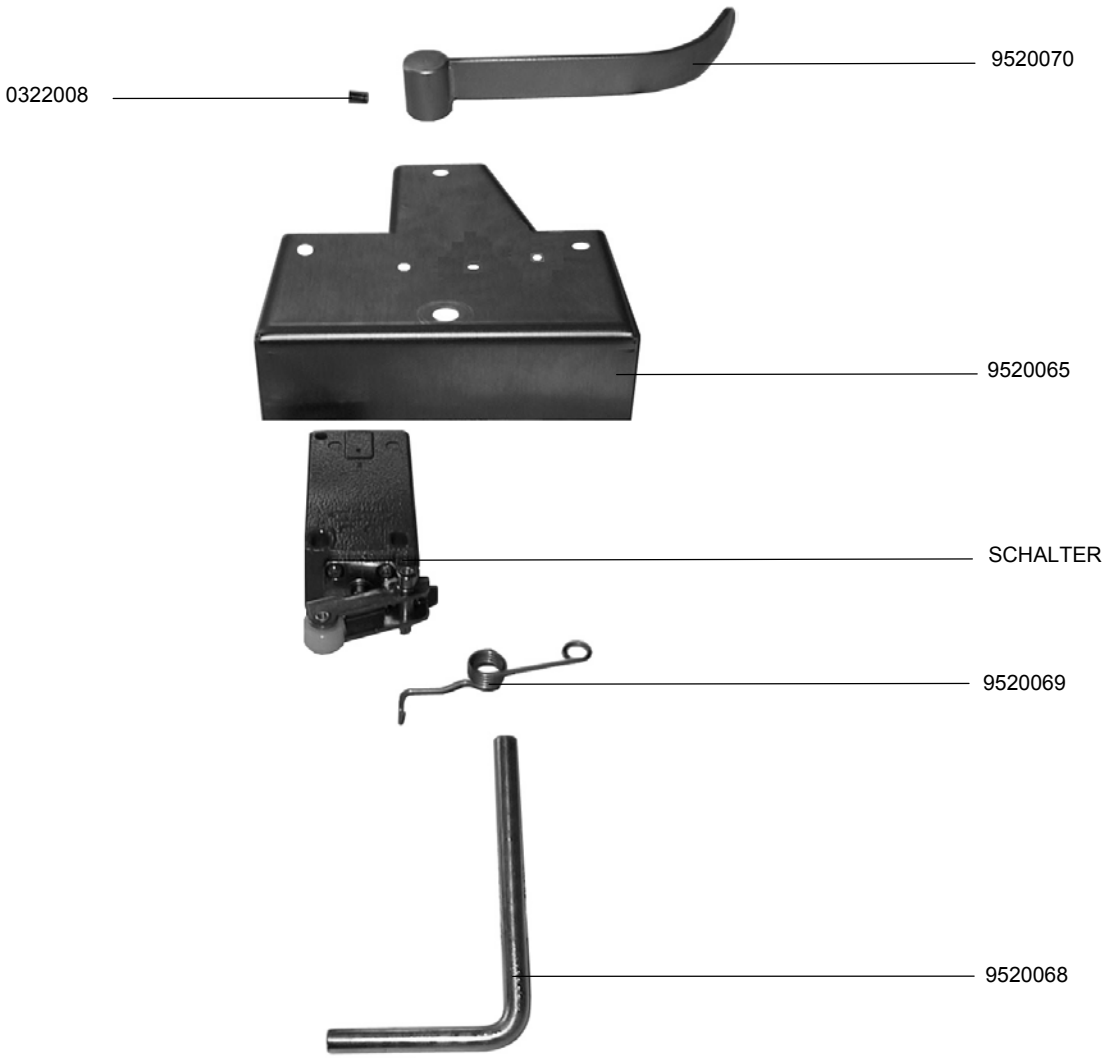
15.1.5 TISCHENDSCHALTER

15.1.5 TABLE END SWITCH

15.1.5 INTERRUPTEUR FIN DE COURSE



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	9520068	SCHALTERFAHNE	ACTUATING LEVER	LEVIER DE MANOEUVRE
*	9520069	SCHENKELFEDER	SPRING	RESSORT
	SCHALTER	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	9520065	BEFESTIGUNGSPLATTE	BASE PLATE	PLAQUE DE MONTAGE
	9520070	SCHALTERFAHNE	ACTUATING LEVER	LEVIER DE MANOEUVRE
	0322008	GEWINDESTIFT M6X8	SET SCREW M6X8	VIS SANS TETE M6X8

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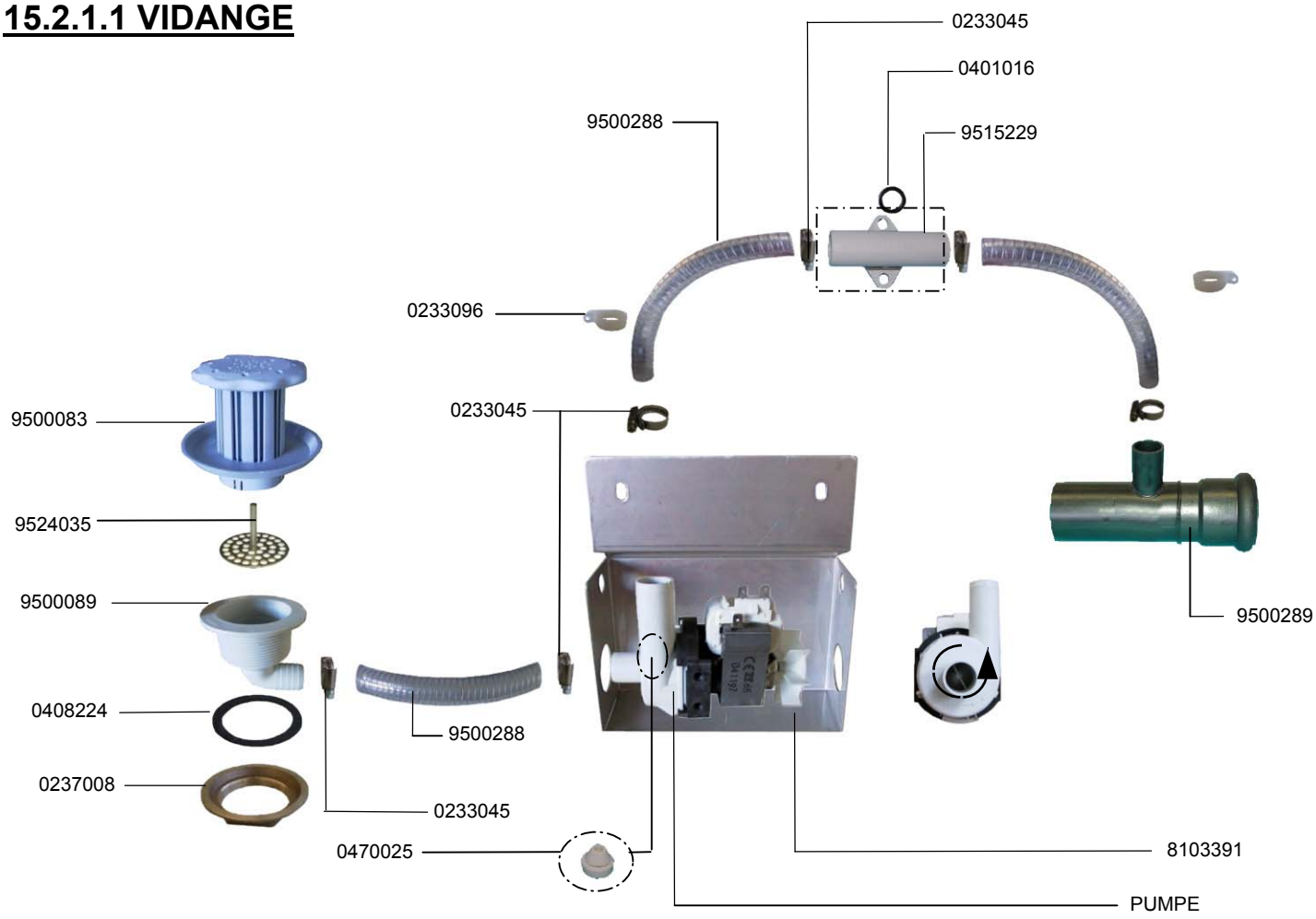
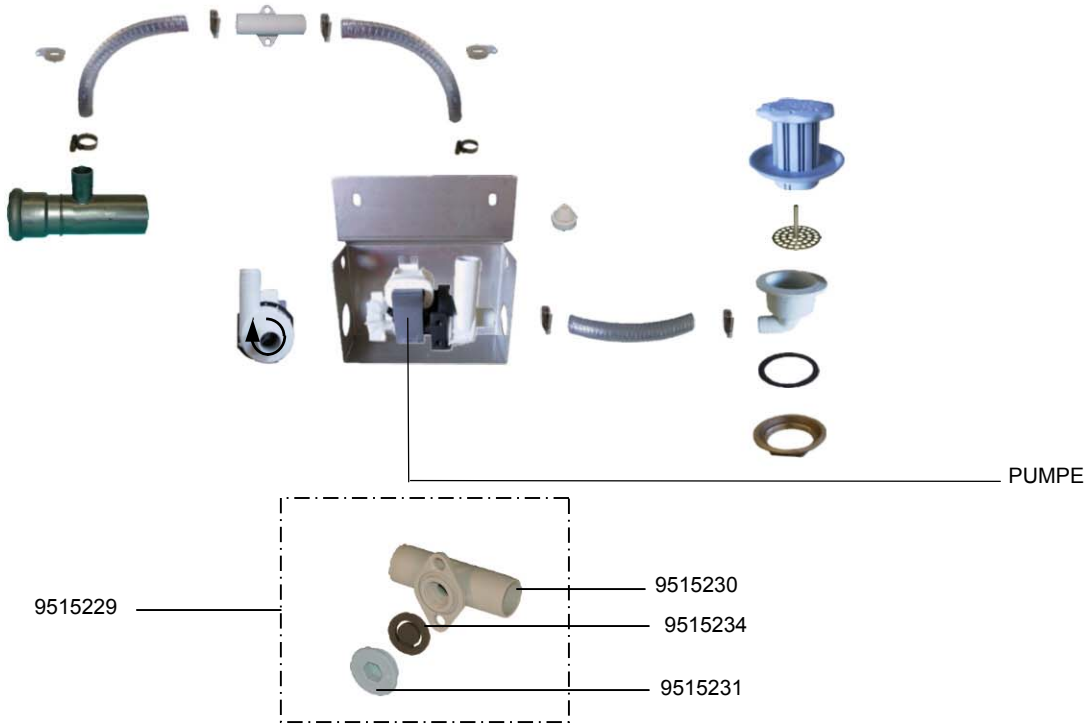
15.2.1.1 TANKABLAUF

15.2.1.1 DRAIN

15.2.1.1 VIDANGE





Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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15.2.1.1 TANKABLAUF

15.2.1.1 DRAIN

15.2.1.1 VIDANGE

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	0233045	SCHLAUCHKLEMME 20-32	HOSE WIRE CLAMP 20-32	COLLIER DE SERRAGE 20-32
	0401016	DICHTUNG	PACKING	JOINT
	9500289	ROHR	TUBE	TUYAU
	8103391	PUMPENHALTERUNG	PUMP SUPPORT	SUPPORT DE POMPE
	PUMPE	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
	9500288	SCHLAUCH	HOSE	TUYAU
	0237008	MUTTER 2“	NUT 2“	ECROU 2“
	0408224	DICHTUNG	PACKING	JOINT
	9500089	ABLAUFVENTIL	DRAIN VALVE	VANNE DE VIDANGE
	9524035	SIEB FÜR ABLAUF	SIEVE FOR DRAIN	TAMIS POUR VIDANGE
	9500083	STANDSIEB	SIEVE	FILTRE
	0233096	SCHLAUCHKLEMME	HOSE WIRE CLAMP	COLLIER DE SERRAGE
	9515229	ENTLÜFTUNGSVENTIL KPL	VENT VALVE CPL	VANNE D’ AERATION CPL
	9515230	ENTLÜFTUNGSVENTIL	VENT VALVE	VANNE D’ AERATION
*	9515234	DICHTUNG	PACKING	JOINT
	9515231	VERSCHLUSSSCHRAUBE	SCREW PLUG	BOUCHON FILETE DE DECHARGE
	0470025	GUMMIPUFFER	RUBBER BUFFER	TAMPON EN CAOUTCHOUC

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15.2.2 ABSAUGGEBLÄSE

15.2.2 EXTRACTION FAN

15.2.2 VENTILATEUR D'ASPIRATION

IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
MOTOR	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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15.2.3 ABSAUGGEBLÄSE Ø 400

15.2.3 EXTRACTION FAN Ø 400

15.2.3 VENTILATEUR D'ASPIRATION Ø 400

IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
MOTOR	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE

Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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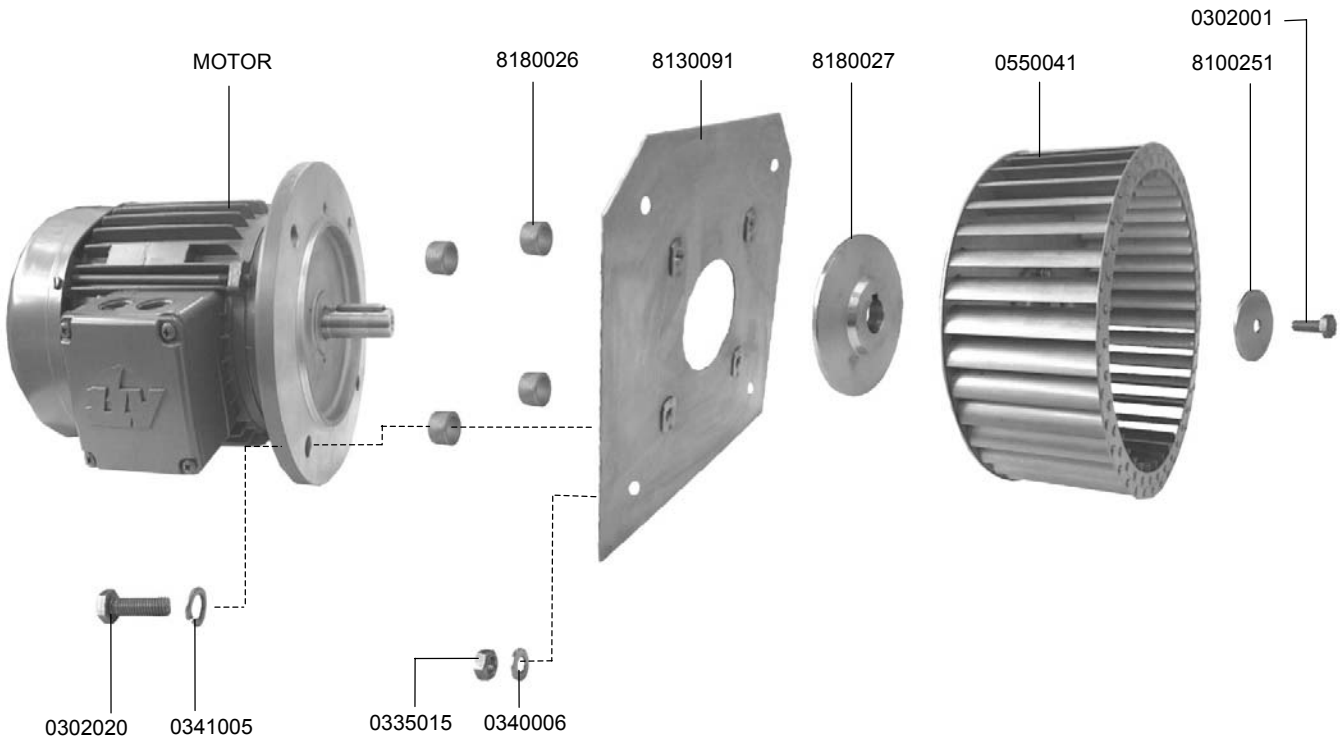
15.2.4 RADIALGEBLÄSE (MRL-0,75KW)

15.2.4 RADIAL FAN

15.2.4 VENTILATEUR RADIAL



IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
0302001	SKT.-SCHRAUBE M6X15	HEXAGON SCREW M6X15	VIS A 6 PANS M6X15
8100251	U-SCHEIBE Ø34X7X2, 1.4301	FRONT DISC Ø34X7X2; 1.4301	RONDELLE Ø34X7X2, 1.4301
0550041	LÜFTERRAD 12504271022-E Ø225X100, 1.4301	VENTILATOR WHEEL WITH CENTER Ø225X100, 1.4301	ROUE DE VENTILATEUR AVEC MOYEU Ø225X100, 1.4301
8180027	SCHLEUDERSCHEIBE Ø90X19X11,5, CUZN	CENTRIFUGAL DISC Ø90X19X11,5, CUZN	RONDELLE CENTRIFUGE Ø90X19X11,5, CUZN
8130091	MOTORPLATTE FÜR MRL 280X280X2, 1.4301	MOTOR SUPPORT F. MRL-FAN 280X280X2, 1.4301	PLAQUE SUPPORT DE MOTEUR 280X280X2, 1.4301
8180026	DISTANZ LÜFTERMOTOR Ø17X10, 1.4301	DISTANCE PIECE F. EXTRACTION MOTOR Ø17X10, 1.4301	PIECE DE DISTANCE POUR VENTILATEUR Ø17X10, 1.4301
MOTOR	SIEHE ELEKTROSCHALTPLAN	SEE ELECTRIC WIRING DIAGRAM	VOIR SCHEMA ELECTRIQUE
0302020	SKT.-SCHRAUBE M10X25	HEXAGON SCREW M10X25	VIS A 6 PANS M10X25
0341005	FEDERRING A10	FEATHER KEY A10	RONDELLE RESSORT A10
0335015	SKT.-MUTTER M8	HEXAGON NUT M8	ECROU A 6 PANS M8
0340006	U-SCHEIBE MS. VERN. 8,4X18X2	WASHER BRASS NICKELED 8,4X18X2	RONDELLE EN LAITON NICKELE 8,4X18X2

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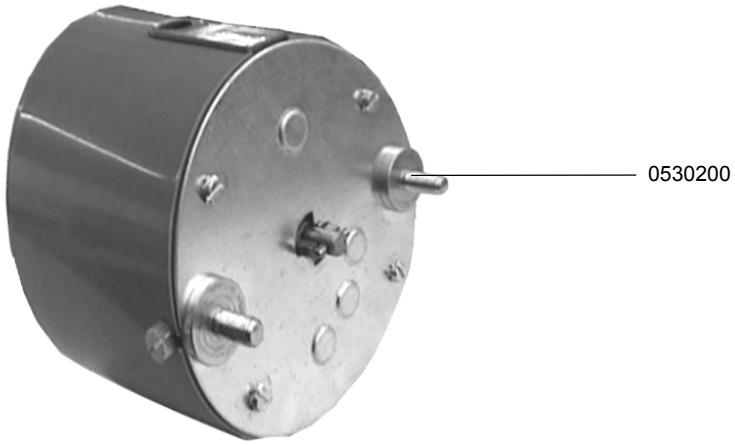
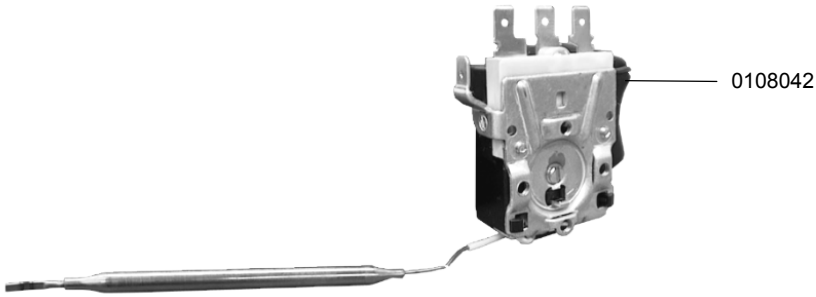
15.2.5 FROSTSCHUTZWÄCHTER

15.2.5 ANTI-FREEZE PROTECTION

15.2.5 PROTECTEUR ANTI-GEL





	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
*	0108042	TEMPERATURFÜHLER	TEMPERATURE PROBE	SONDE DE TEMPERATURE
	0530200	MOTOR	MOTOR	MOTEUR

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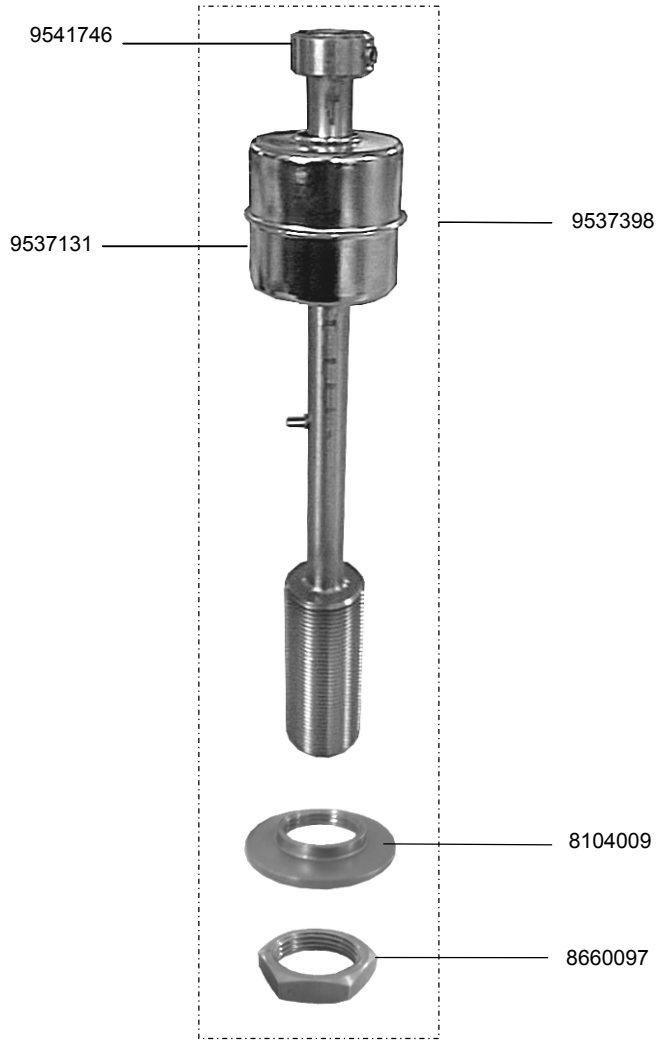
15.2.6 SCHWIMMERSCHALTER

15.2.6 FLOATING SWITCH

15.2.6 FLOTTEUR POUR NIVEAU DE BAC



	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
*	9537398	SCHWIMMER KPL.	FLOAT CPL.	FLOTTEUR CPL.
	9541746	STELLRING	FIXING RING	BAGUE DE FIXATION
	9537131	SCHWIMMER	FLOAT	FLOTTEUR
	8104009	MUTTER ¾“	NUT ¾“	ECROU ¾“
	8660097	SKT. MUTTER ¾“	HEXAGONE SCREW ¾“	ECROU A 6 PANS ¾“

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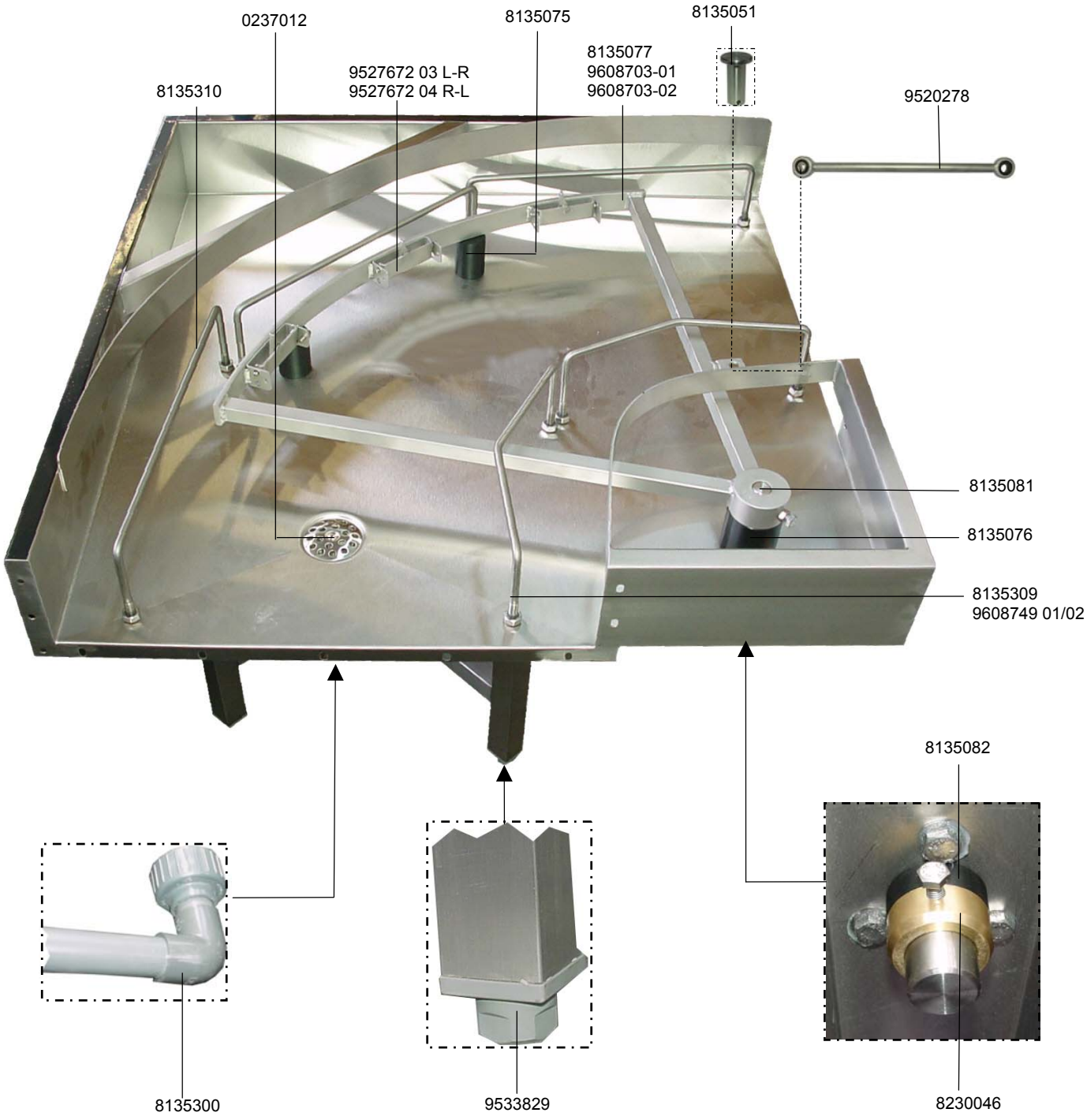
16.1 KURVE 90°

16.1 CURVE 90°

16.1 COURBE 90°



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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16.1 KURVE 90°

16.1 CURVE 90°

16.1 COURBE 90°

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	8135310	KORBGLEITBÜGEL	BASKET GUIDES	ARCHET GLISSANT POUR PANIER
	0237012	UNIVERSALVENTIL	UNIVERSAL VALVE	SOUPAPE UNIVERSELLE
*	9527672 03	TRANSPORTKLINKE L-R	TRANSPORT RATCHET L-R	LOQUET DE TRANSPORTG-D
*	9527672 04	TRANSPORTKLINKE R-L	TRANSPORT RATCHET R-L	LOQUET DE TRANSPORT D-G
*	8135051	GELENKBOLZEN-KOPPELSTANGE	HINGED BOLT-COUPLING BAR	AXE D'ARTICULATION
V	8135075	AUFLAGER ET 90°	SUPPORT 90°	SUPPORT 90°
V	8135076	LAGERGEHÄUSE ET 90°	BEARING HOUSING	LOGEMENT DU PALIER
*	9520278	KOPPELSTANGE	COUPLING BAR	ELEMENT DE COUPLAGE
	8135081	ACHSE 20X125	AXLE 20X125	ESSIEU 20X125
V	8135082	DISTANZBUCHSE 30X30	CONNECTION RING 30X30	BAGUE DE CONNEXION 30X30
	8230046	DISTANZRING	SPACER	DOVILLE DE ECARTEMENT
	9533829	TISCHSTOLLEN KPL.	TABLE FEET COMPLET	PIEDS DE TABLE COMPLET
	8135300	ABLAUFROHR ET 90°	OUTLET PIPE	ROBINET POUR L'ECOULEMENT DE L'EAU
	8135077	ANTRIEBSRAD	DRIVE WHEEL	ROUE D'ENTRAINEMENT
	8135309	KORBGLEITBÜGEL	BASKET GUIDES	ARCHET GLISSANT POUR PANIER
		GÜLTIG AB 01.01.2005	**VALID FROM 01.01.2005**	**VALABLE A PARTIR DU 01.01.2005**
	9608749 01	KORBGLEITBÜGEL L-R	BASKET GUIDES L-R	ARCHET GLISSANT POUR PANIER G-D
	9608749 02	KORBGLEITBÜGEL R-L	BASKET GUIDES R-L	ARCHET GLISSANT POUR PANIER D-G
	9608703-01	ANTRIEBSRAD L-R	DRIVE WHEEL L-R	ROUE D'ENTRAINEMENT G-D
	9608703-02	ANTRIEBSRAD R-L	DRIVE WHEEL R-L	ROUE D'ENTRAINEMENT D-G

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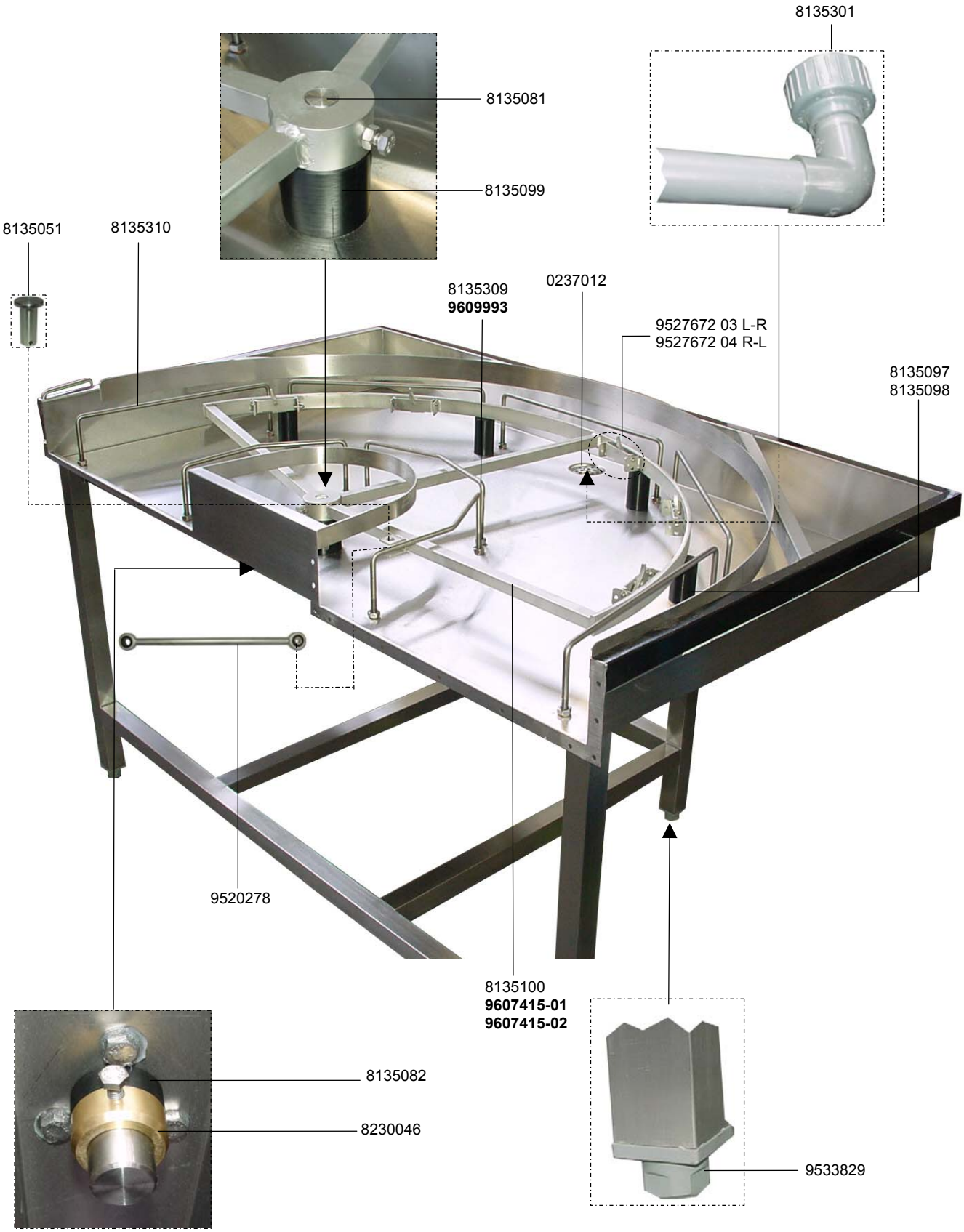
16.2 KURVE 180°

16.2 CURVE 180°

16.2 COURBE 180°



Änderungen in Ausführung und Konstruktion vorbehalten. / We reserve the right to change execution and construction. / Nous nous reservons le droit de changer l´éxécution et la construction.
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16.2 KURVE 180°

16.2 CURVE 180°

16.2 COURBE 180°

	IDENT.-NR. IDENT.-NO.	BEZEICHNUNG	DESIGNATION	DESIGNATION
	8135310	KORBGLEITBÜGEL	BASKET GUIDES	ARCHET GLISSANT POUR PANIER
	8135081	ACHSE 20X125	AXLE	ESSIEU
V	8135099	LAGERGEHÄUSE ET 180°	BEARING HOUSING	LOGEMENT DU PALIER
	0237012	UNIVERSALVENTIL	UNIVERSAL VALVE	SOUPAPE UNIVERSELLE
*	9527672 03	TRANSPORTKLINKE L-R	TRANSPORT RATCHET L-R	LOQUET DE TRANSPORT L-R
*	9527672 04	TRANSPORTKLINKE R-L	TRANSPORT RATCHET R-L	LOQUET DE TRANSPORT R-L
	8135301	ABLAUFROHR ET 180°	OUTLET PIPE	ROBINET POUR L'ECOULEMENT DE L'EAU
V	8135097	AUFLAGER ET 180°-66MM	SUPPORT 180°-66MM	SUPPORT 180°-66MM
V	8135098	AUFLAGER ET 180°-72MM	SUPPORT 180°-72MM	SUPPORT 180°-72MM
	9533829	TISCHSTOLLEN KPL.	TABLE CLEAT	CRAMPON DE LA TABLE
*	9520278	KOPPELSTANGE	COUPLING BAR	ELEMENT DE COUPLAGE
V	8135082	DISTANZBUCHSE 30X30	CONNECTION RING 30X30	BAGUE DE CONNEXION 30X30
	8230046	DISTANZRING	TABLE FEET COMPLET	PIEDS DE TABLE COMPLET
*	8135051	GELENKBOLZEN-KOPPELSTANGE	HINGED BOLT-COUPLING BAR	AXE D'ARTICULATION
	8135100	ANTRIEBSRAD	DRIVE WHEEL	ROUE D'ENTRAINEMENT
	8135309	KORBGLEITBÜGEL	BASKET GUIDES	ARCHET GLISSANT POUR PANIER
		GÜLTIG AB 01.01.2005	**VALID FROM 01.01.2005**	**VALABLE A PARTIR DU 01.01.2005**
	9609993	KORBGLEITBÜGEL	BASKET GUIDES	ARCHET GLISSANT POUR PANIER
	9607415-01	ANTRIEBSRAD L-R	DRIVE WHEEL L-R	ROUE D'ENTRAINEMENT G-D
	9607415-02	ANTRIEBSRAD R-L	DRIVE WHEEL R-L	ROUE D'ENTRAINEMENT D-G

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Gruppe
Group
Groupe

	Das Programm auf einen Blick	Our product range	Notre gamme de production
1	**Spülautomaten mit stationärem Waschverfahren** Geschirr- und Gläserspülautomaten; Topf- und Behälterspülautomaten; Salat- und Gemüsewaschautomaten	**Automatic dishwashing machines** with fixed washing system	**Lave-vaisselle à procéder de lavage stationnaire** Automates de lavage
2	**Spülautomaten mit Durchlaufsystem** Geschirrspülautomaten mit Bandtransport-, Korbtransport- oder Umlaufsystem	**Belt conveyor and rack transport machines** for continuous throughput operations	**Lave-vaisselle automatiques à passage continu** Lave-vaisselle automatiques à conveyeur et à transport de paniers
3	**Spezialspülanlagen** Vollautomatische Spülanlagen für Geschirr, Tabletts und Besteck; Flight-Catering-Anlagen; Industriespülautomaten; Trolley-, Behälter- und Transportwagenspülanlagen	**Special purpose warewashing solutions** such as semi and fully automatic systems, designed for the catering industry in general	**Lave-vaisselle spéciaux** Installations de lavage entièrement automatiques et semi-automatiques, lave-vaisselle industriels
4	**Förderanlagen** Tablett- und Geschirrtransportbänder, Geschirrsortier- und Stapeleinrichtungen	**Conveying systems** for vertical and horizontal transport of trays and dishes	**Installations de transport** pour le transport vertical et horizontal de plateaux
5	**Speisereste-Behandlungsanlagen** Maschinen und Anlagen zur Aufbereitung von Speiseresten für eine umweltgerechte Entsorgung	**Food waste treatment systems** Water conditioning appliances	**Installations de traitement de déchets alimentaires** ainsi que des installations de traitement d'eau
6	**Großkücheneinrichtungen** Geräte und Mobiliar für Relais- und Stationsküchen; Transportwagen; Tablett- und Tellerstapler; Tische, Schränke und Regale aus Edelstahl; diverse Organisationsmittel	**Central wash-up equipment** Tables, cabinets, tray and plate stackers	**Installations pour grandes cuisines** Tables, empileurs de plateaux et d'assiettes
7	**Sanitäreinrichtungen für Krankenhäuser und Heime** Reinigungs- und Desinfektionsautomaten für Steckbecken und andere Pflegegeschirre; Pflegekombinationen; Komplettausstattung für Unreine Arbeitsräume	**Sanitary appliances for healthcare establishments** Automatic cleaning and disinfection appliances for bedpans and other care utensils	**Installations sanitaires pour hôpitaux et maisons de soins** Automates de nettoyage et de désinfection, combinés de soins

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Service adresses list

Operating instructions

Service instructions

Technical datas

Commissioning

Guide for trouble-shooting

Spare parts list

Service adresses

Miscalleneous

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